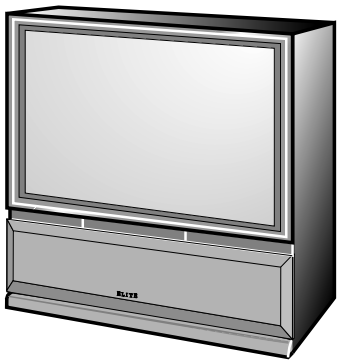
Service Manual



ORDER NO.
ARP3047

PROJECTION MONITOR RECEIVER

PRO-610HD
PRO-510HD
SD-582HD5
SD-532HD5

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model				Power Requirement	Remarks
	PRO-610HD	PRO-510HD	SD-582HD5	SD-532HD5		
KUXC/CA	○	○	○	○	AC120V	
KBXC	—	—	—	○	AC120V	

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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.
Health & safety code section 25249.6—Proposition 65

NOTES
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

1.1 SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis or picture tube.
The following precautions should be observed:

1. Do not install, remove, or handle the picture tube in any manner unless shatterproof goggles are worn. People not so equipped should be kept away while picture tubes are handled.
   Keep picture tube away from the body while handling.
2. When service is required, even though the PROJECTION MONITOR RECEIVER an isolation transformer should be inserted between power line and the set in safety before any service is performed.
3. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
4. When service is required, observe the original lead dress.
   Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
5. Always use the manufacturer's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's.
   Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
6. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacturer has become defective, or inadvertently defeated during servicing.

Therefore, the following checks should be performed for the continued protection of the customer and service technician.

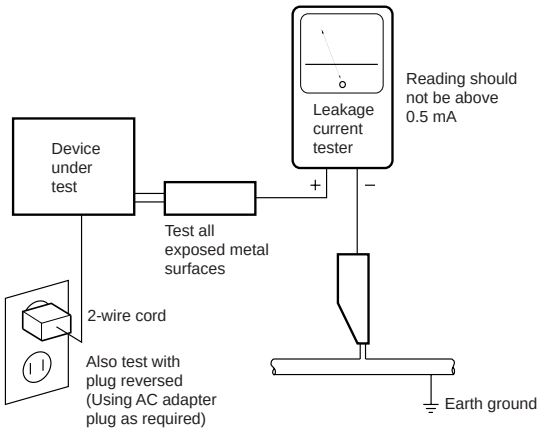
Leakage Current Cold Check

With the AC plug removed from 120V AC 60Hz source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of 0.3MΩ and a maximum resistor reading of 5MΩ. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into a 120V AC 60Hz outlet (do not use an isolation transformer for this check). Turn the AC power switch on.

Using a “Leakage Current Tester (Simpson Model 229 equivalent)”, measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

High Voltage

This set is provided with a X-ray protection for clearly indicating that voltage has increased in excess of a predetermined value. Comply with all notes described in this Service Manual regarding this hold down circuit when servicing, so that this X-ray protection may correctly by operated.

Serviceman Warning

In the status of the black picture (video muting is being applied) when no signal is input, high voltage of this set during operation is less than 30.5kV. In case any component having some relation to the high voltage is replaced, confirm that the high voltage is lower than 30.5kV in the status of the black picture when no signal is input.

To measure H.V. use a high impedance H.V. meter.

Connect (–) to earth and (+) to the FBT anode cable connector.

X-radiation

TUBE: The primary source of X-radiation in this set is the picture tube.

For continued X-radiation protection, the replacement tube must be the same type as the original, PIONEER approved type.

The picture tube (the CRT assy R, G, B) use in this set holds complete guarantee against X-ray radiation when the X-ray is sealed (See page 4). Accordingly, when the current in flowing to the picture tube (CRT assy R, G, B) be sure to perform it by putting the tube into X-ray sealed applied state. Avoid absolutely to flow the current to the picture tube (CRT assy R, G, B) itself. Moreover, when the voltage of the high voltage circuit becomes abnormally a little higher, the picture tube radiates X-rays. Accordingly, when servicing the high voltage circuit be sure to replace as an assembly with the DEFLECTION SERVICE assy in the manner in which has been adjusted to perform normal operation.

1.2 PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, X-radiation, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

1.3 CHARGED SECTION, HIGH VOLTAGE GENERATING POINT AND X-RAY PROTECTION

■ Charged section

The circuit in which the commercial AC power is used as it is without passing through the power supply transformer. If the charged section is touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. In this case, be sure to connect the set via an insulated transformer and supply the current.

■ Charged section (Power supply primary side)

1. The primary side of the AC IN assy
2. AC power cord
3. The primary side of the POWER SUPPLY assy
4. AC power cord for DTV STB
   (PRO-610HD, PRO-510HD Only)

: Part is the charged section.

: Part is the high voltage generating points other than the charged section.

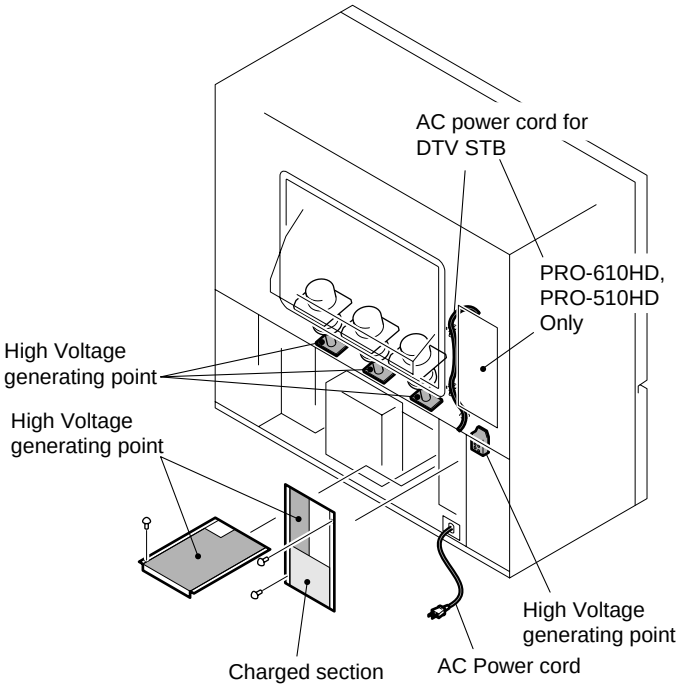


Fig. 1 Charged section and high voltage generating point

■ High voltage generating point

The place where voltage is 100V is generated.

1.Charged seciton
  DEFLECTION assy
    (including FBT) (30.5kV, 1.2kV, 210V,135V)
2. POWER SUPPLY assy (135V)
3. R. CRT DRIVE assy (10.5kV, 210V)
4. G. CRT DRIVE assy (10.5kV, 210V)
5. B. CRT DRIVE assy (10.5kV, 210V)
6. CRT assy R (CRT service assy R) (30.5kV)
7. CRT assy G (CRT service assy G) (30.5kV)
8. CRT assy B (CRT service assy B) (30.5kV)
9. Focus variable resistor(VR1) (10.5kV)
10. Deflection yokes (L1, L2 and L3) Approx. (1100V at peak)

■ X-ray protection

- Regarding the parts which are relative to radiation of X-rays (There is the danger to radiate X-ray from the individual CRT assy R, G, B), there are notifications of caution in the individual schematic diagrams. Be sure to read them for safety's sake.
- The component parts for X-ray protection are as follows : When the current flows to the CRT assy R, G, B, be sure to perform it with these parts being attached. Protection from the X-ray radiation is maintained in the state in which these parts have been installed to the CRT assy. R, G, B. Accordingly, never supply current only to the CRT assy R, G, B.
  Moreover, the anode voltage of the CRT assy R, G, B should always be kept not higher than the predetermined value (in the minimum brightness and picture state when non signal input is less than 30.5kV). Be sure to drive the CRT assy R, G, B by using a completely functional DEFLECTION assy which have been adjusted completely in the combined state. (When the voltage abnormally becomes high, the X-ray protection circuit will operate.)

1. CRT assy R, G, B (Do not dismantle CRT assemblies under any circumastances)
2. Each Lens assy

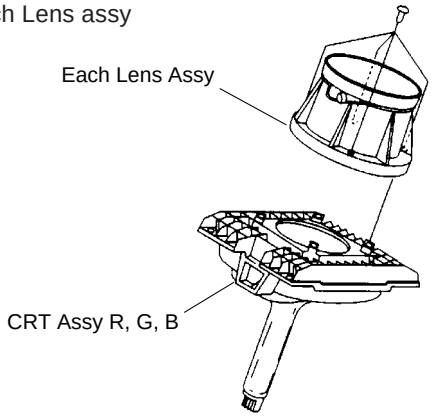
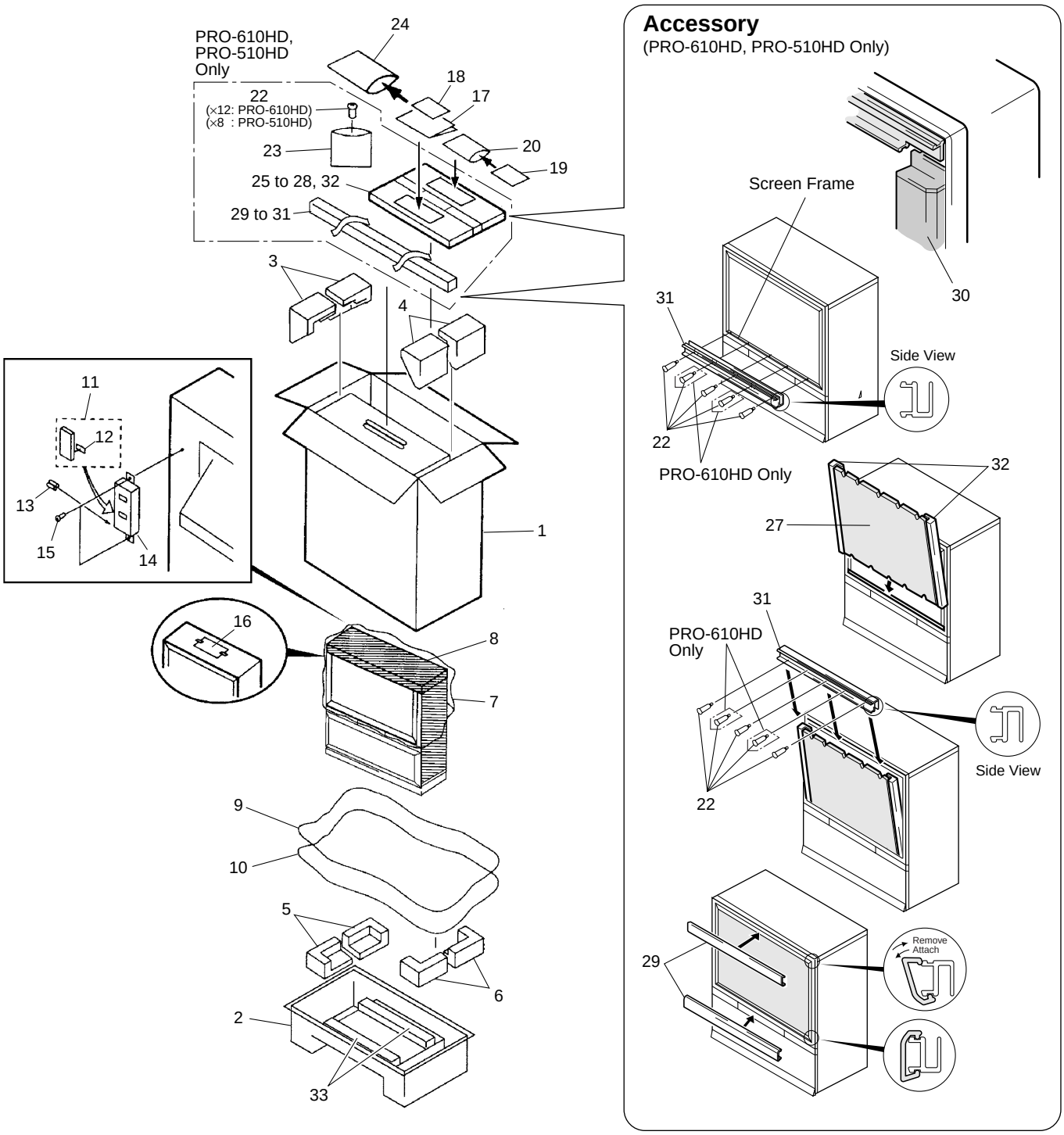


Fig. 2 Component parts for X-ray protection

2. EXPLODED VIEWS AND PARTS LIST

NOTES :
- *Parts marked by " NSP " are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by ☆ are important parts which relate in X-rays radiation. If any of these parts need to be replaced, always replace with specified parts.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*

2.1 PACKING



(1) PACKING PARTS LIST

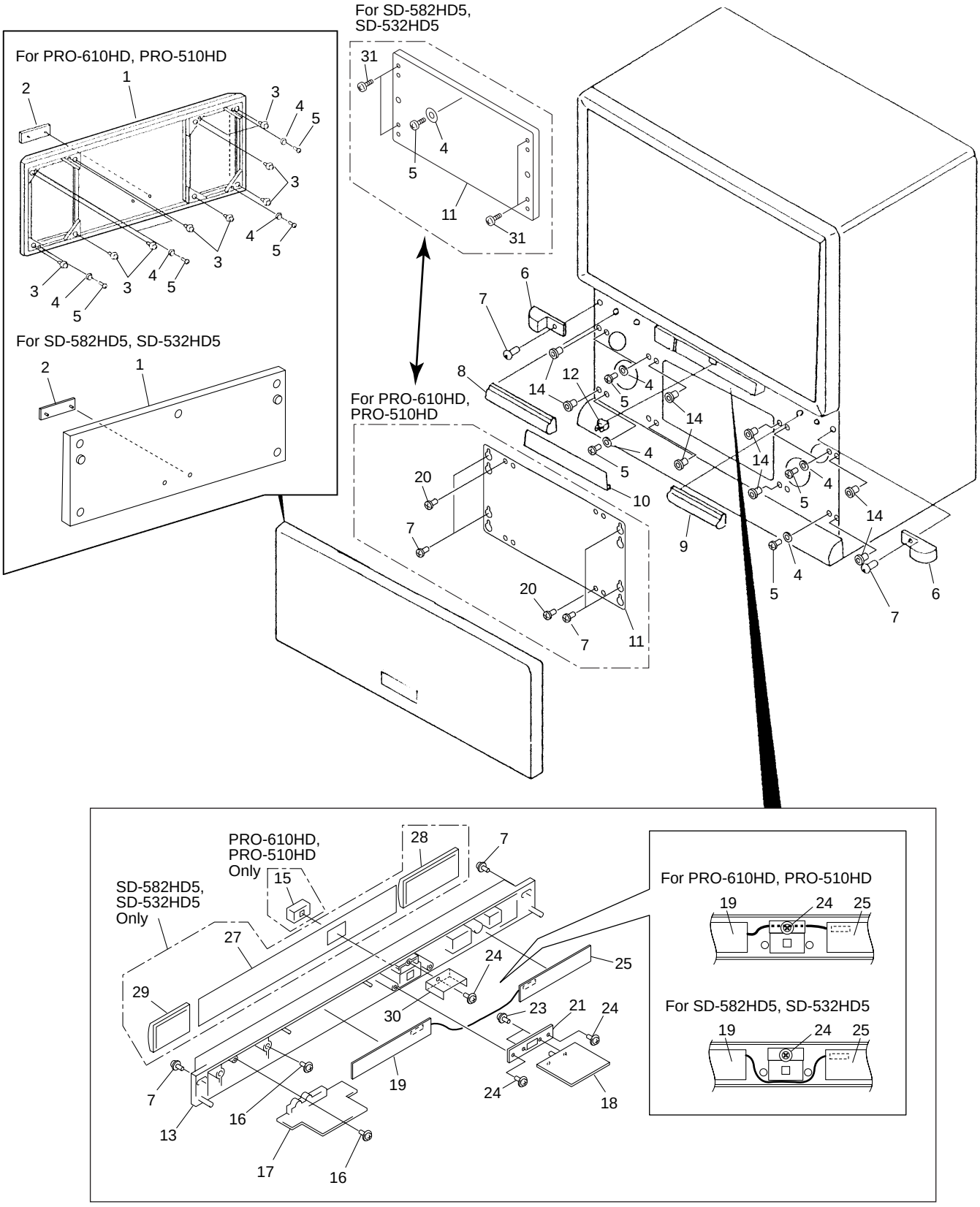
Mark	No.	Description	Part No.
	1	Upper Carton	See Contrast table (2)
	2	Under Carton	See Contrast table (2)
	3	Upper Pad L	AHA2253
	4	Upper Pad R	AHA2254
	5	Under Pad L	AHA2255
	6	Under Pad R	AHA2256
NSP	7	Vinyl Sheet Upper	See Contrast table (2)
NSP	8	Packing Sheet	See Contrast table (2)
NSP	9	Packing Sheet Under	See Contrast table (2)
	10	Vinyl Sheet Under	See Contrast table (2)
	11	Remote Control Unit	See Contrast table (2)
	12	Battery Cover	AZN2401
NSP	13	Alkarine Dry Cell Battery (LR6,AA)	AEX1018
	14	CU Packing Case	AHC1032
	15	Special Screw	ABA1239
	16	CONV. Attention Card	See Contrast table (2)
	17	Operating Instructions	See Contrast table (2)
NSP	18	Caution Card	ARM1057
NSP	19	Warranty Card	See Contrast table (2)
NSP	20	Poly Bag	AHG1285
	21	.....	
	22	Special Screw (Panel Frame Attaching Screw)	See Contrast table (2)
NSP	23	Wrapper Bag	See Contrast table (2)
NSP	24	Literature Bag	AHG1222
	25	Panel Case	See Contrast table (2)
	26	.....	
	27	Contrast Screen	See Contrast table (2)
	28	Acrylic Caution Card	See Contrast table (2)
	29	Frame Cover H	See Contrast table (2)
	30	Frame Cover V Assy	See Contrast table (2)
	31	Panel Frame H	See Contrast table (2)
	32	Panel Frame V	See Contrast table (2)
NSP	33	Under Cushion A	See Contrast table (2)

(2) CONTRAST TABLE

PRO-610HD, PRO-510HD, SD-582HD5 and SD-532HD5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.					Remarks
			PRO-610HD KUXC/CA	PRO-510HD KUXC/CA	SD-582HD5 KUXC/CA	SD-532HD5 KUXC/CA	SD-532HD5 KBXC	
	1	Upper Carton	AHD3045	AHD3046	AHD3049	AHD3050	AHD3050	
	2	Under Carton	AHD3047	AHD3048	AHD3047	AHD3048	AHD3048	
NSP	7	Vinyl Sheet Upper	AHG1288	AHG1095	AHG1288	AHG1095	AHG1095	
NSP	8	Packing Sheet	AHG1230	AHG1120	AHG1230	AHG1120	AHG1120	
NSP	9	Packing Sheet Under	AHG1290	AHG1235	AHG1290	AHG1235	AHG1235	
	10	Vinyl Sheet Under	AHG1289	AHG1234	AHG1289	AHG1234	AHG1234	
	11	Remote Control Unit (CU-SD110)	AXD1448 (CU-SD110)	AXD1448 (CU-SD110)	AXD1449 (CU-SD111)	AXD1449 (CU-SD111)	AXD1449 (CU-SD111)	
	16	CONV. Attention Card	ARM1173	ARM1173	ARM1174	ARM1174	ARM1174	
	17	Operating Instructions (English)	ARB1527	ARB1527	ARB1528	ARB1528	ARB1528	
NSP	19	Warranty Card	ARY1026	ARY1026	ARY1050	ARY1050	Not used	
NSP	20	Poly Bag	AHG1285	AHG1285	AHG1285	AHG1285	Not used	
	22	Special Screw	ABA1280	ABA1280	Not used	Not used	Not used	
NSP	23	Wrapper Bag	AHG1076	AHG1076	Not used	Not used	Not used	
	25	Panel Case	AHB1215	AHB1216	Not used	Not used	Not used	
	27	Contrast Screen	AAK2749	AAK2750	Not used	Not used	Not used	
	28	Acrylic Caution Card	ARH1167	ARH1167	Not used	Not used	Not used	
	29	Frame Cover H	AAP1613	AAP1614	Not used	Not used	Not used	
	30	Frame Cover V Assy	AAP1617	AAP1619	Not used	Not used	Not used	
	31	Panel Frame H	AAP1629	AAP1630	Not used	Not used	Not used	
	32	Panel Frame V	AND1169	AND1167	Not used	Not used	Not used	
NSP	33	Under Cushion A	AHA2258	AHA2260	AHA2258	AHA2260	AHA2260	

2.2 FRONT VIEW (1/2)



(1) FRONT VIEW (1/2) PARTS LIST

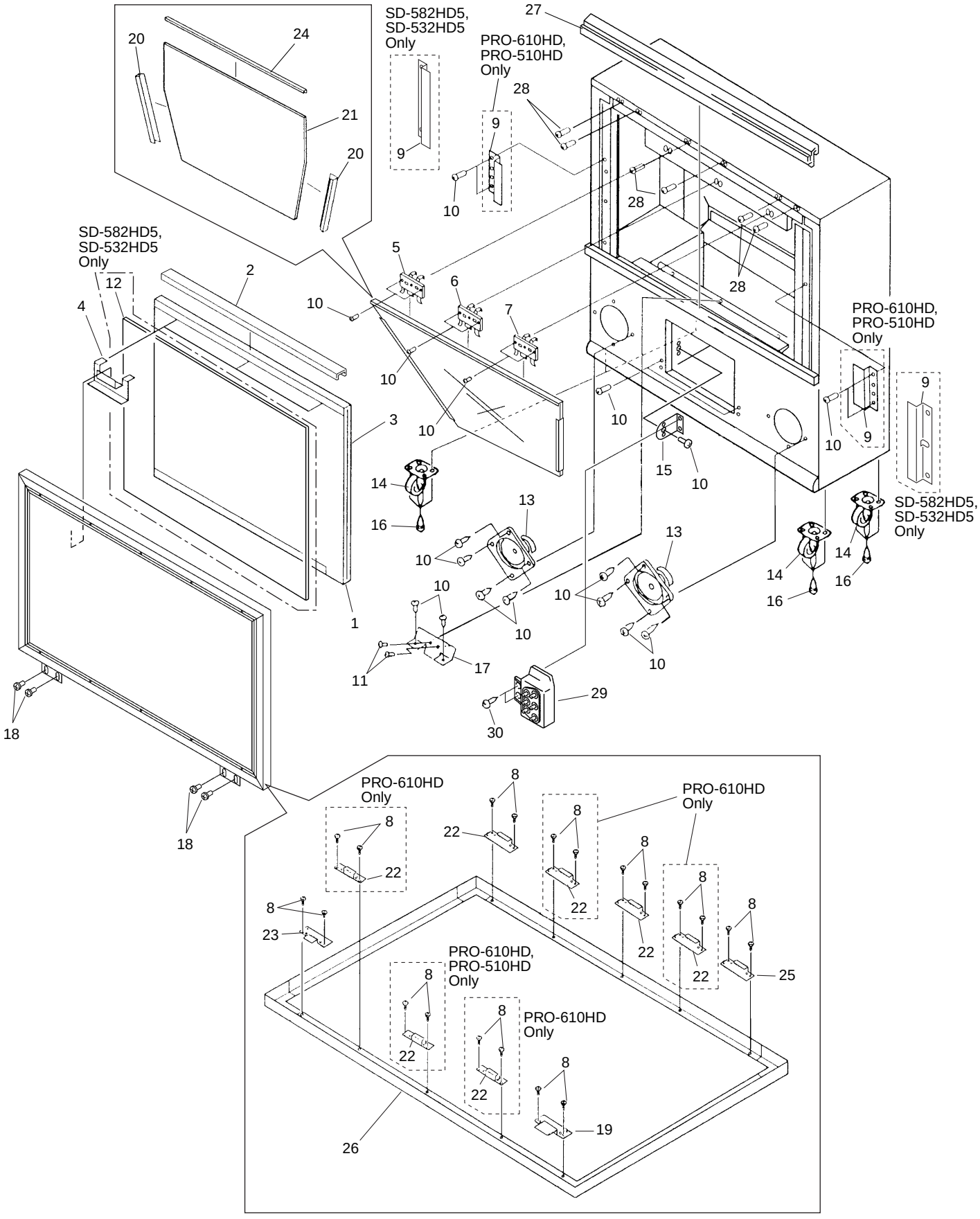
Mark	No.	Description	Part No.
	1	Grille	See Contrast table (2)
	2	Badge	See Contrast table (2)
NSP	3	Catcher A	See Contrast table (2)
	4	Magic Tape	AEC1349
	5	Screw	ABA1271
	6	Side Cover	See Contrast table (2)
	7	Special Screw	ABA1240
	8	Side Panel Assy L	See Contrast table (2)
	9	Side Panel Assy R	See Contrast table (2)
	10	Door Assy	See Contrast table (2)
	11	Blind Plate	See Contrast table (2)
	12	Catcher F2M	AEC1609
	13	Front Panel Assy	See Contrast table (2)
	14	Catch B	See Contrast table (2)
	15	Power Knob	See Contrast table (2)
	16	Screw	ABZ40P080FZK
	17	FRONT INPUT Assy	See Contrast table (2)
	18	POWER SW Assy	AWZ6467
	19	FRONT CONTROL Assy	AWZ6462
	20	Screw	See Contrast table (2)
NSP	21	Switch Holder	ANG2313
	22	.....	
	23	Screw	AMZ30P060FZK
	24	Screw	APZ30P080FZK
	25	LED DPO Assy	See Contrast table (2)
	26	.....	
	27	Control Sheet	See Contrast table (2)
	28	Indicator Panel L	See Contrast table (2)
	29	Indicator Panel R	See Contrast table (2)
NSP	30	Front Shield	ANK1502
	31	Special Screw	See Contrast table (2)

(2) CONTRAST TABLE

PRO-610HD, PRO-510HD, SD-582HD5 and SD-532HD5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.				Remarks
			PRO-610HD	PRO-510HD	SD-582HD5	SD-532HD5	
	1	Grille	AMM3003	AMM3004	AMR3173	AMR3174	
	2	Badge	AAM1081	AAM1081	AAM1088	AAM1088	
	3	Catcher A	ANZ-241	ANZ-241	Not used	Not used	
	6	Side Cover	AMR3107	AMR3107	Not used	Not used	
	8	Side Panel Assy L	AMB2662	AMB2664	Not used	Not used	
	9	Side Panel Assy R	AMB2663	AMB2665	Not used	Not used	
	10	Door Assy	AAN1461	AAN1461	AAN1459	AAN1457	
	11	Blind Plate	AMM2933	AMM2933	AMM3009	AMM3009	
	13	Front Panel Assy	AMB2666	AMB2666	Not used	Not used	
	13	Control Panel	Not used	Not used	AMB2657	AMB2657	
	14	Catch B	AEC1507	AEC1507	ANZ–242	ANZ–242	
	15	Power Knob	AAD4105	AAD4105	Not used	Not used	
	17	FRONT INPUT Assy	AWZ6466	AWZ6466	AWZ6471	AWZ6471	
	20	Screw	ABA1239	ABA1239	Not used	Not used	
	25	LED DPO Assy	AWZ6463	AWZ6463	AWZ6470	AWZ6470	
	27	Control Sheet	Not used	Not used	AMB2751	AMB2751	
	28	Indicator Panel L	Not used	Not used	AMB2752	AMB2752	
	29	Indicator Panel R	Not used	Not used	AMB2753	AMB2753	
	31	Special Screw	Not used	Not used	ABA1249	ABA1249	

2.3 FRONT VIEW (2/2)



(1) FRONT VIEW (2/2) PARTS LIST

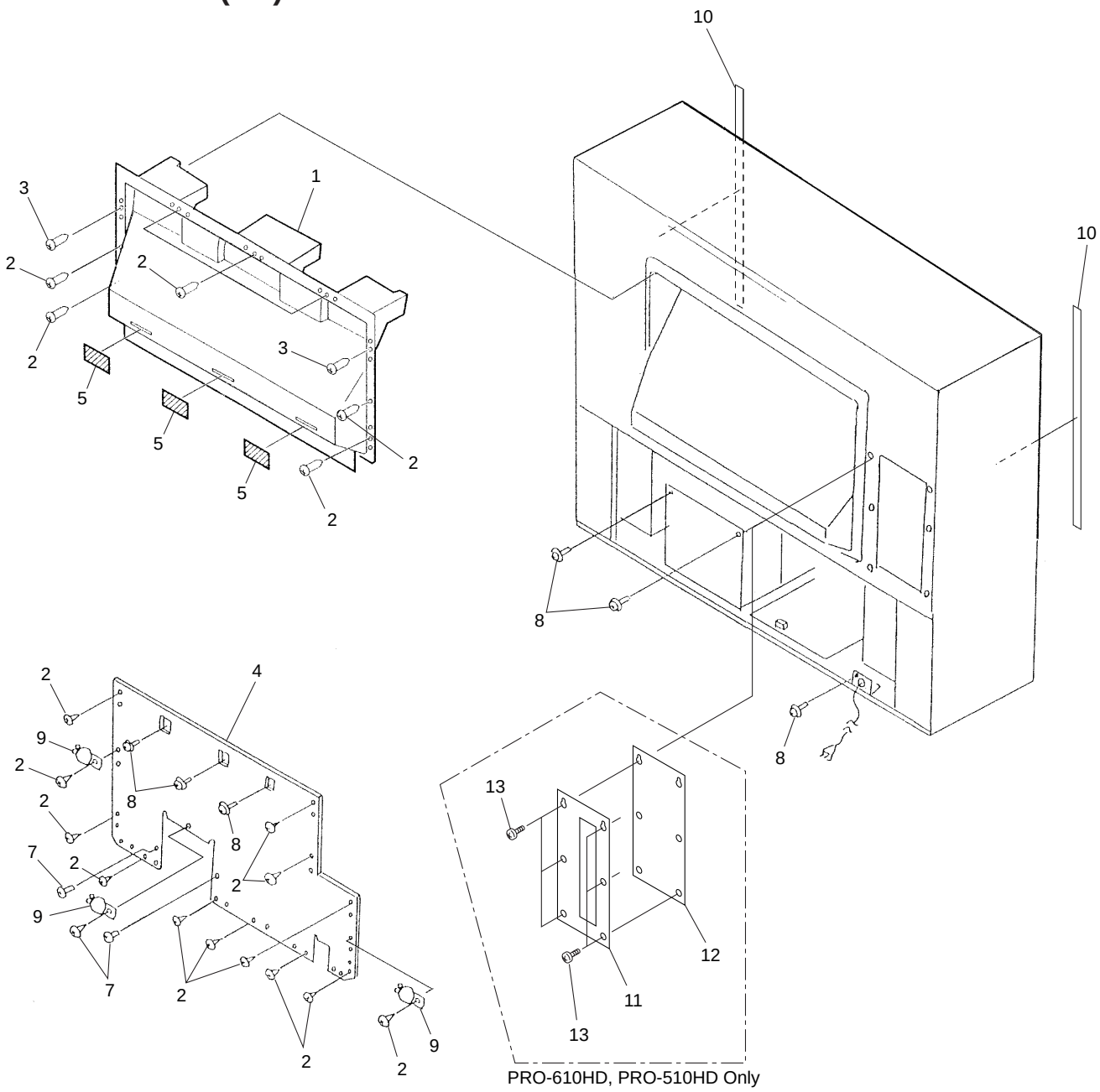
Mark	No.	Description	Part No.
	1	Lenticular Sheet	See Contrast table (2)
	2	Screen Holder Top	See Contrast table (2)
	3	Fresnel	See Contrast table (2)
NSP	4	Upper Cabinet Metal	See Contrast table (2)
NSP	5	Mirror Upper Stay L	ANG2004
NSP	6	Mirror Upper Stay C	ANG2006
NSP	7	Mirror Upper Stay R	ANG2005
	8	Screw	See Contrast table (2)
NSP	9	Screen Side Fitting	See Contrast table (2)
	10	Special Screw	ABA1240
	11	Screw	ACZ40P080FMC
	12	Contrast Screen	See Contrast table (2)
	13	Cone Speaker	APV1021
	14	Caster	AMR2547
NSP	15	VR Holder	ANG1956
	16	Special Screw	ABA1273
NSP	17	CRT Front Holder	ANG2118
	18	Screw M5	ABA1189
NSP	19	Under Screen Metal B	See Contrast table (2)
	20	Mirror Frame V	See Contrast table (2)
	21	Mirror	See Contrast table (2)
NSP	22	Upper Screen Metal B	See Contrast table (2)
NSP	23	Under Screen Metal A	See Contrast table (2)
	24	Mirror Frame H	See Contrast table (2)
NSP	25	Upper Screen Metal A	See Contrast table (2)
	26	Screen Frame Assy	See Contrast table (2)
	27	Screen Holder Low	See Contrast table (2)
	28	Screw	BYC35P160FZK
⚠	29	Focus VR (VR1)	ACX1096
	30	Screw	BBZ30P080FZK

(2) CONTRAST TABLE

PRO-610HD, PRO-510HD, SD-582HD5 and SD-532HD5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.				Remarks
			PRO-610HD	PRO-510HD	SD-582HD5	SD-532HD5	
	1	Lenticular Sheet	AMR3184	AMR3185	AMR3178	AMR3179	
	2	Screen Holder Top	ANG2369	ANG2370	ANG2363	ANG2364	
	3	Fresnel	AMR3186	AMR3187	AMR3180	AMR3181	
	4	Upper Cabinet Metal	ANG2000	ANG2000	ANG2358	ANG2358	
	8	Screw	BYC40P160FMC	BYC40P160FMC	BYC40P140FZK	BYC40P140FZK	
	9	Screen Side Fitting	ANG1993	ANG1993	ANG2366	ANG2362	
	12	Contrast Screen	Not used	Not used	AAK2747	AAK2748	
NSP	19	Under Screen Metal B	ANG2009	ANG2009	ANG2361	ANG2361	
	20	Mirror Frame V	ANG2373	ANG2374	ANG2373	ANG2374	
	21	Mirror	AMR3188	AMR3189	AMR3188	AMR3189	
NSP	22	Upper Screen Metal B	ANG2002	ANG2002	ANG2360	ANG2360	
NSP	23	Under Screen Metal A	ANG2003	ANG2003	ANG2361	ANG2361	
	24	Mirror Frame H	ANG2371	ANG2372	ANG2371	ANG2372	
NSP	25	Upper Screen Metal A	ANG2001	ANG2001	ANG2359	ANG2359	
	26	Screen Frame Assy	AAP1611	AAP1612	AAP1607	AAP1608	
	27	Screen Holder Low	AAP1621	AAP1622	AAP1609	AAP1610	

2.4 REAR VIEW (1/2)



PRO-610HD, PRO-510HD Only

(1) REAR VIEW (1/2) PARTS LIST

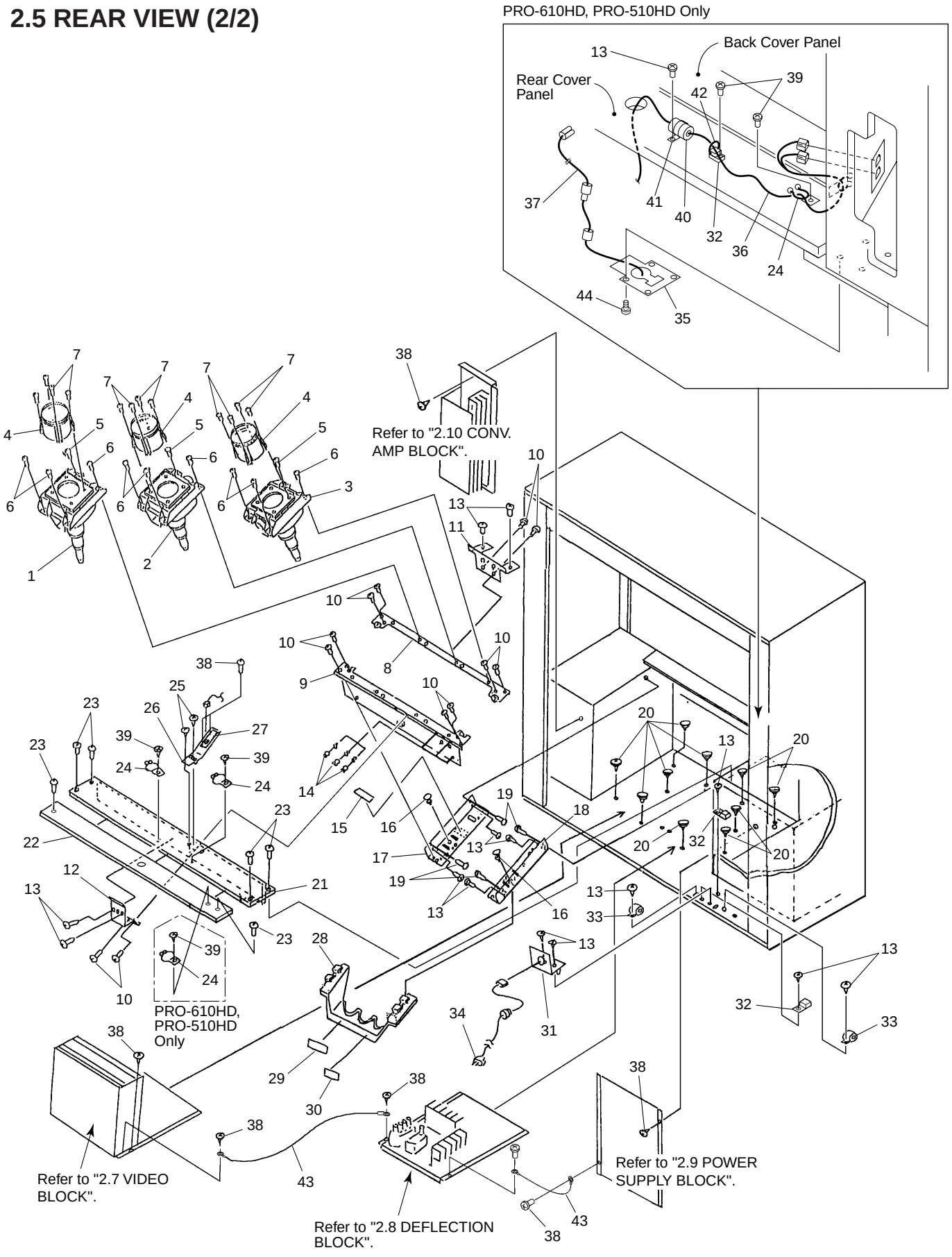
Mark	No.	Description	Part No.
	1	Mirror Case 51	AME2296
	2	Screw	ABA1240
	3	Screw	PYC40T140FZB
	4	Rear Cover	AMM2999
	5	Blind Sheet	AEC1622
	6	.....	
	7	Screw	ABZ30P100FZK
	8	Screw	ABA1269
NSP	9	Cabinet Wire Holder	AEC1263
	10	Screen Cushion	See Contrast table (2)
	11	Rear Cover (DTV)	See Contrast table (2)
	12	Rear Cover Sheet	See Contrast table (2)
	13	Screw	PMB40P250FZB

(2) CONTRAST TABLE

PRO-610HD, PRO-510HD, SD-582HD5 and SD-532HD5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.				Remarks
			PRO-610HD	PRO-510HD	SD-582HD5	SD-532HD5	
	10	Screen Cushion	AEC1830	AEC1831	AEC1845	AEC1844	
	11	Rear Cover (DTV)	AMM3000	AMM3000	Not used	Not used	
	12	Rear Cover Sheet	AMR3190	AMR3190	Not used	Not used	

2.5 REAR VIEW (2/2)


PRO-610HD, PRO-510HD Only
Back Cover Panel
Rear Cover Panel
Refer to "2.10 CONV. AMP BLOCK".
PRO-610HD, PRO-510HD Only
Refer to "2.7 VIDEO BLOCK".
Refer to "2.8 DEFLECTION BLOCK".
Refer to "2.9 POWER SUPPLY BLOCK".

(1) REAR VIEW (2/2) PARTS LIST

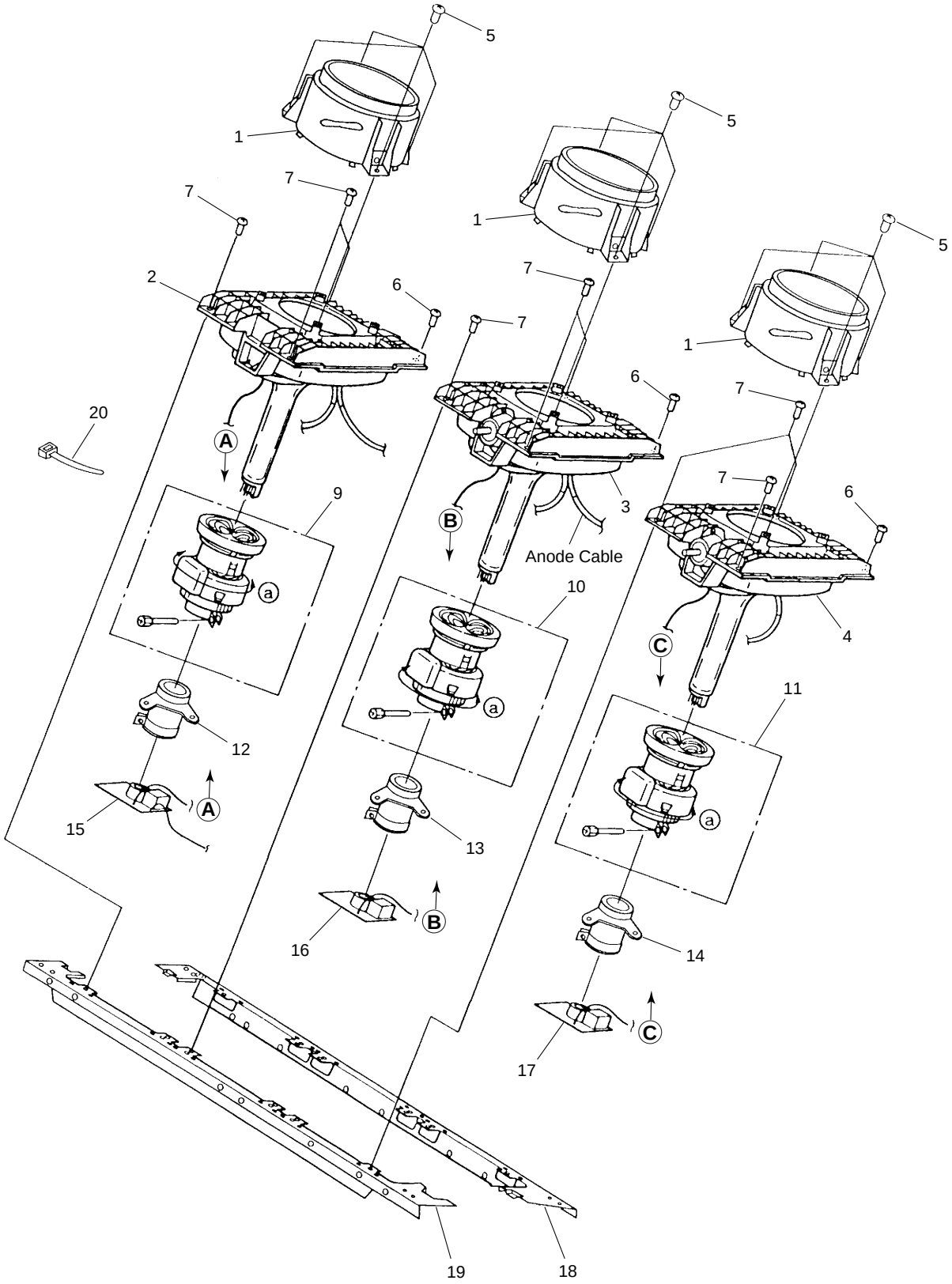
Mark	No.	Description	Part No.
☆	1	CRT Service Assy B	See Contrast table (2)
☆	2	CRT Service Assy G	See Contrast table (2)
☆	3	CRT Service Assy R	See Contrast table (2)
☆	4	Lens Assy	See Contrast table (2)
	5	Screw	FBT40P120FZK
	6	Screw	ABA1168
	7	Screw	AMZ40P080FZK
NSP	8	CRT Front Frame	See Contrast table (2)
NSP	9	CRT Rear Frame	See Contrast table (2)
	10	Screw	ACZ40P080FMC
NSP	11	CRT Front Holder	ANG2118
NSP	12	CRT Rear Holder	ANG2119
	13	Screw	ABA1240
	14	Cord Holder	AEC1257
NSP	15	Tube Label	AAX2497
	16	Rivet	AEC-441
NSP	17	CRT Stand Holder R	ANA1497
NSP	18	CRT Stand Holder L	ANA1496
	19	Screw	PMB50P250FZB
	20	Special Screw	ABA1121
NSP	21	Back Cover Panel	See Contrast table (2)
	22	Rear Cover Panel	AMM3010
	23	Screw	ABA1241
NSP	24	Cabinet Wire Holder	AEC1263
	25	Screw	ABA1279
NSP	26	Fixing Metal	ANG1958
	27	SR Assy	AWZ6465
NSP	28	Tray	AMR2563
NSP	29	Solder Warning Label	AAX2672
NSP	30	Warning Label (KC)	AAX1797
NSP	31	AC Cord Holder A	ANG2307
NSP	32	Bind Holder	AEC1785
	33	Ferrite Core	ATX1033
⚠	34	AC Power Cord	ADG1180
NSP	35	AC Cord Holder B	See Contrast table (2)
	36	Wire Harness C (J14)	See Contrast table (2)
⚠	37	AC Power Cord	See Contrast table (2)
	38	Screw	BBZ30P080FZK
	39	Screw	ABA1271
	40	Ferrite Core	See Contrast table (2)
NSP	41	Nylon Clamp 18N	AEC1789
	42	Nylon Binder	AEC-093
	43	1P Lead Wire (J1)	ADX2505
	44	Screw	PMB40P250FZB

(2) CONTRAST TABLE

PRO-610HD, PRO-510HD, SD-582HD5 and SD-532HD5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.				Remarks
			PRO-610HD	PRO-510HD	SD-582HD5	SD-532HD5	
☆	1	CRT Service Assy B	AWY1422	AWY1418	AWY1420	AWY1418	
☆	2	CRT Service Assy G	AWY1413	AWY1417	AWY1417	AWY1417	
☆	3	CRT Service Assy R	AWY1421	AWY1416	AWY1419	AWY1416	
☆	4	Lens Assy	AMR3183	AMR2833	AMR2833	AMR2833	
NSP	8	CRT Front Frame	ANA1613	ANA1614	ANA1613	ANA1614	
NSP	9	CRT Rear Frame	ANA1615	ANA1616	ANA1615	ANA1616	
NSP	21	Back Cover Panel	AMM3001	AMM3002	AMM3001	AMM3002	
NSP	35	AC Cord Holder B	ANG2311	ANG2311	Not used	Not used	
	36	Wire Harness C (J14)	ADX2491	ADX2491	Not used	Not used	
⚠	37	AC Power Cord	ADG1185	ADG1185	Not used	Not used	
	40	Ferrite Core (L9)	ATX1031	ATX1031	Not used	Not used	

2.6 CRT BLOCK



(1) CRT BLOCK PARTS LIST

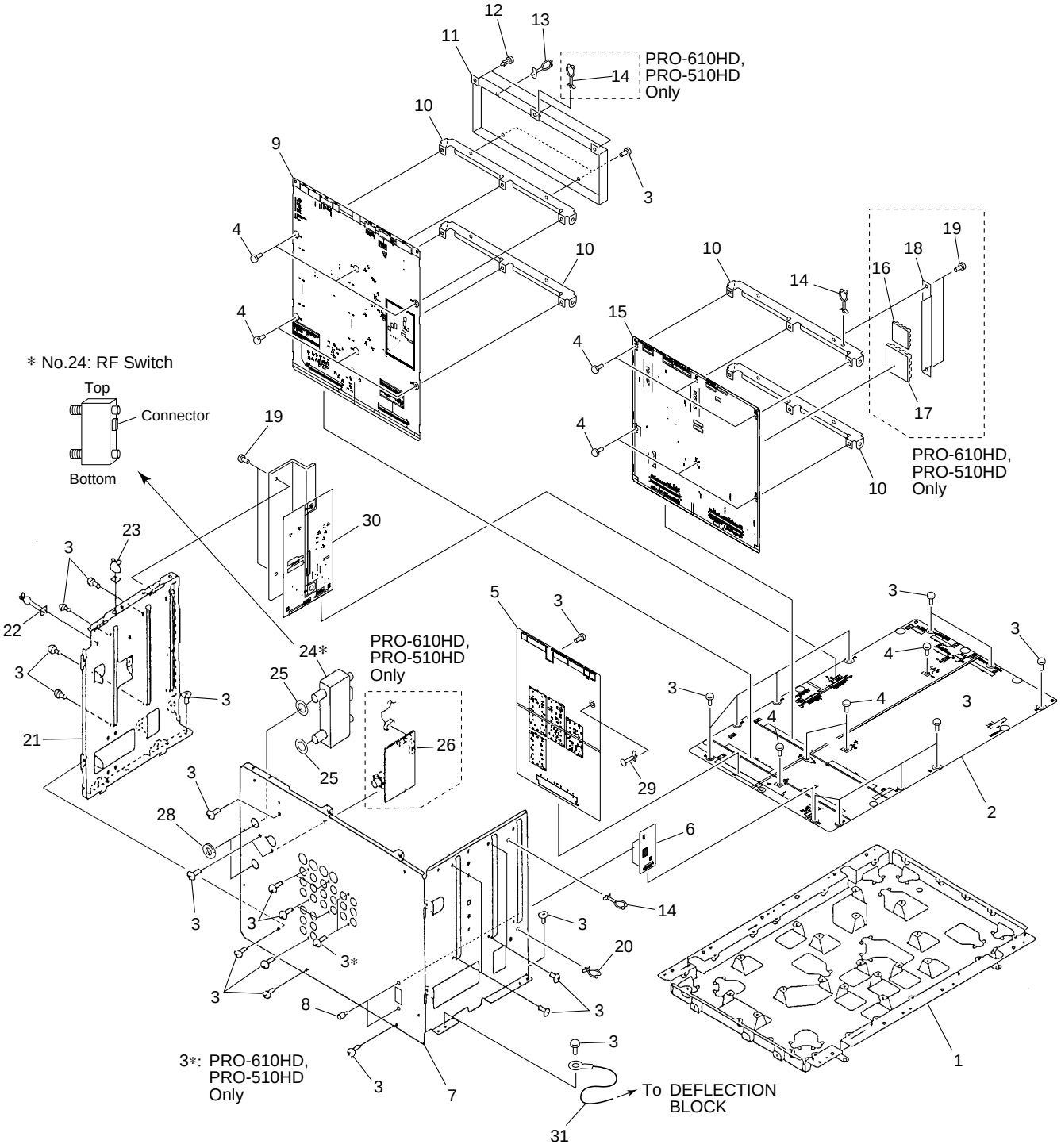
Mark	No.	Description	Part No.
☆	1	Lens Assy	See Contrast table (2)
☆	2	CRT Service Assy R	See Contrast table (2)
☆	3	CRT Service Assy G	See Contrast table (2)
☆	4	CRT Service Assy B	See Contrast table (2)
	5	Screw	AMZ40P080FZK
	6	Screw	FBT40P120FZK
	7	Screw	ABA1168
	8	.....	
⚠	9	Deflection Yoke (L1)	ATL1136
⚠	10	Deflection Yoke (L2)	ATL1136
⚠	11	Deflection Yoke (L3)	ATL1136
⚠	12	VM Coil (L4)	ATL1137
⚠	13	VM Coil (L5)	ATL1137
⚠	14	VM Coil (L6)	ATL1137
	15	R. CRT DRIVE Assy	AWZ6457
	16	G. CRT DRIVE Assy	AWZ6458
	17	B. CRT DRIVE Assy	AWZ6459
NSP	18	CRT Rear Frame	See Contrast table (2)
NSP	19	CRT Front Frame	See Contrast table (2)
	20	Nylon Binder	AEC-093

(2) CONTRAST TABLE

PRO-610HD, PRO-510HD, SD-582HD5 and SD-532HD5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.				Remarks
			PRO-610HD	PRO-510HD	SD-582HD5	SD-532HD5	
☆	1	Lens Assy	AMR3183	AMR2833	AMR2833	AMR2833	
☆	2	CRT Service Assy R	AWY1421	AWY1416	AWY1419	AWY1416	
☆	3	CRT Service Assy G	AWY1413	AWY1417	AWY1417	AWY1417	
☆	4	CRT Service Assy B	AWY1422	AWY1418	AWY1420	AWY1418	
NSP	18	CRT Rear Frame	ANA1615	ANA1616	ANA1615	ANA1616	
NSP	19	CRT Front Frame	ANA1613	ANA1614	ANA1613	ANA1614	

2.7 VIDEO BLOCK



(1) VIDEO BLOCK PARTS LIST

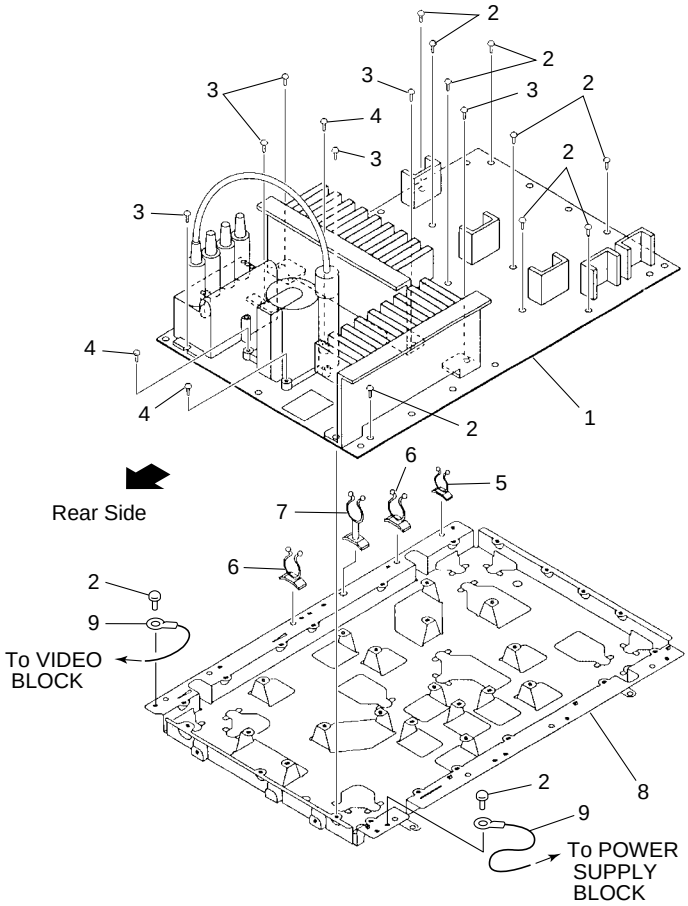
Mark	No.	Description	Part No.
NSP	1	Video Chassis	ANA1584
	2	VIDEO Assy	See Contrast table (2)
	3	Screw	BBZ30P080FZK
	4	Screw	BBZ30P080FCU
	5	AV I/O Assy	See Contrast table (2)
	6	RGB SW Assy	AWZ6468
	7	Rear Panel	See Contrast table (2)
	8	Hexagon Head Screw	BBA1051
	9	SIGNAL Assy	See Contrast table (2)
NSP	10	PCB Sub Frame	ANG2304
	11	Signal Shield	ANK1629
	12	Rivet	AEC–441
NSP	13	Cable Clip D3S	AEC1782
	14	Cable Clip	AEC1806
	15	SUB VIDEO Service Assy	See Contrast table (2)
NSP	16	IP Heat Sink S	See Contrast table (2)
NSP	17	IP Heat Sink M	See Contrast table (2)
	18	IP Heat Sink Holder	See Contrast table (2)
	19	Screw	See Contrast table (2)
NSP	20	Cable Clip D3M	AEC1783
	21	PCB Side Holder	ANG2305
NSP	22	Lead Clamper M	AEC1611
NSP	23	Cable Clip A	AEC1325
	24	RF Switch	AXF1088
	25	Washer	WAXOF160N100
	26	BNC Assy	See Contrast table (2)
	27	Screw	See Contrast table (2)
	28	Nut	BBN1005
NSP	29	Mini Card Spacer	AEC1835
	30	AUDIO Assy	See Contrast table (2)
	31	1P Laed Wire	ADX2505

(2) CONTRAST TABLE

PRO-610HD, PRO-510HD, SD-582HD5 and SD-532HD5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.				Remarks
			PRO-610HD	PRO-510HD	SD-582HD5	SD-532HD5	
	2	VIDEO Assy	AWV1799	AWV1799	AWV1804	AWV1804	
	5	AV I/O Assy	AWV1802	AWV1802	AWV1807	AWV1807	
	7	Rear Panel	ANC2336	ANC2336	ANC2337	ANC2337	
	9	SIGNAL Assy	AWV1800	AWV1800	AWV1805	AWV1805	
	15	SUB VIDEO Service Assy	AWV1819	AWV1819	Not used	Not used	
	15	SUB VIDEO Assy	Not used	Not used	AWV1806	AWV1806	
NSP	16	IP Heat Sink S	ANH1572	ANH1572	Not used	Not used	
NSP	17	IP Heat Sink M	ANH1571	ANH1571	Not used	Not used	
	18	IP Heat Sink Holder	AEC1850	AEC1850	Not used	Not used	
	26	BNC Assy	AWZ6464	AWZ6464	Not used	Not used	
	27	Screw	BCZ30P080FZK	BCZ30P080FZK	Not used	Not used	
	30	AUDIO Assy	AWZ6472	AWZ6472	AWZ6469	AWZ6469	

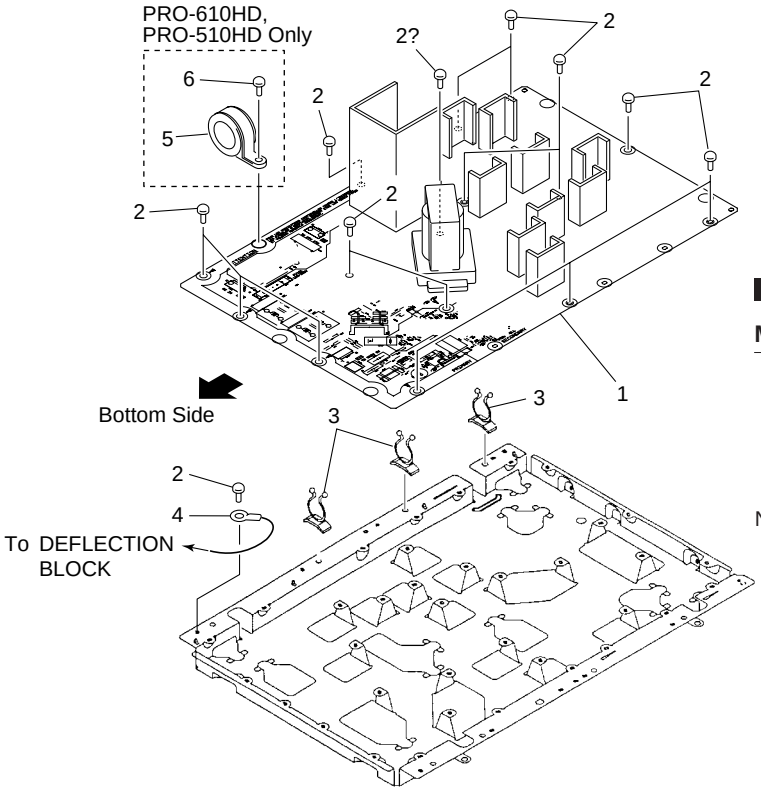
2.8 DEFLECTION BLOCK



■ DEFLECTION BLOCK PARTS LIST

Mark	No.	Description	Part No.
☆	1	DEFLECTION SERVICE Assy	AWV1809
	2	Screw	BBZ30P080FZK
	3	Screw	ABZ30P100FZK
	4	Screw	VBZ30P200FMC
NSP	5	Cable Clip D3S	AEC1782
NSP	6	Cable Clip D3M	AEC1783
NSP	7	Cable CliP	AEC1325
NSP	8	DF Chassis	ANA1583
	9	1P Laed Wire	ADX2505

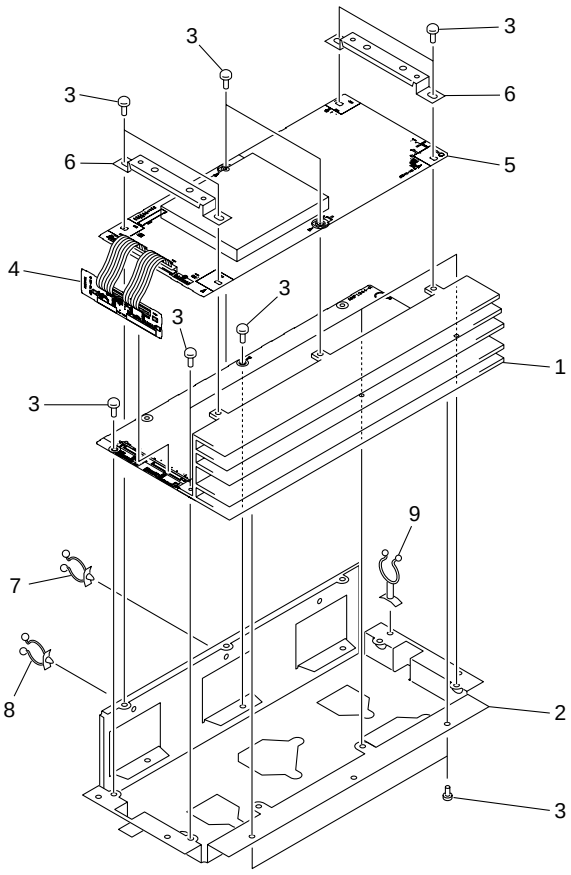
2.9 POWER SUPPLY BLOCK



■ POWER SUPPLY BLOCK PARTS LIST

Mark	No.	Description	Part No.
	1	POWER SUPPLY Assy (for PRO-610HD, PRO-510HD)	AWV1795
	1	POWER SUPPLY Assy (for SD-582HD5, SD-532HD5)	AWV1808
	2	Screw	BBZ30P080FZK
NSP	3	Cable Clip D3M	AEC1783
	4	1P Laed Wire	ADX2505
	5	Ferrite Core (PRO-610HD, PRO-510HD only)	ATX1033
	6	Screw (PRO-610HD, PRO-510HD only)	ABZ30P100FZK

2.10 CONV. AMP BLOCK



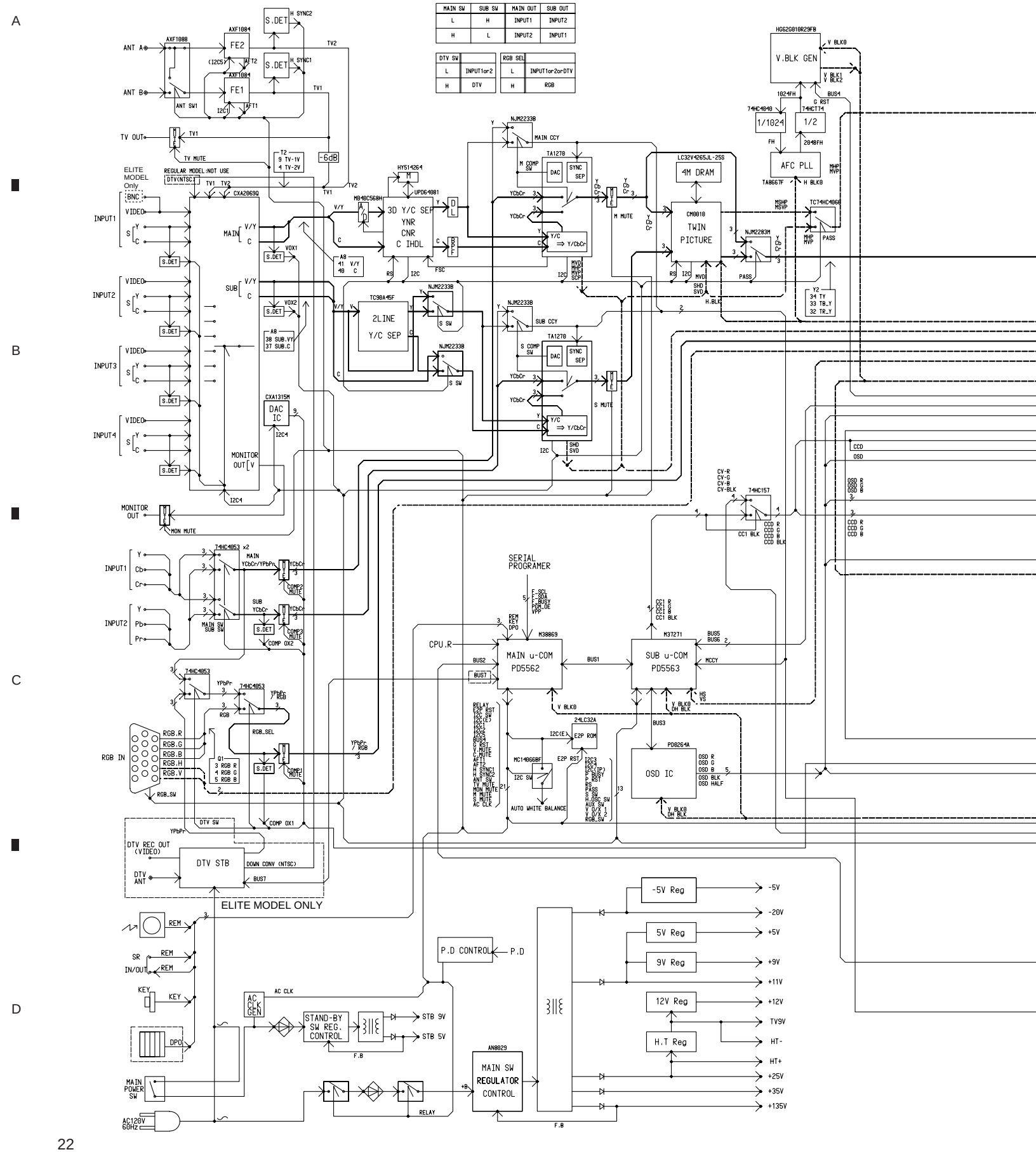
■ CONV. AMP BLOCK PARTS LIST

Mark	No.	Description	Part No.
	1	CONV. AMP Assy	AWZ6456
NSP	2	CONV. Chassis	ANA1619
	3	Screw	ABZ30P100FMC
	4	CONNECTOR Assy	AWZ6461
	5	DIGITAL CONV. ASSY	AWZ6460
NSP	6	CONV. Holder	ANG2365
NSP	7	Cable Clip D3M	AEC1783
NSP	8	Cable Clip D3S	AEC1782
	9	Cable Clip	AEC1806

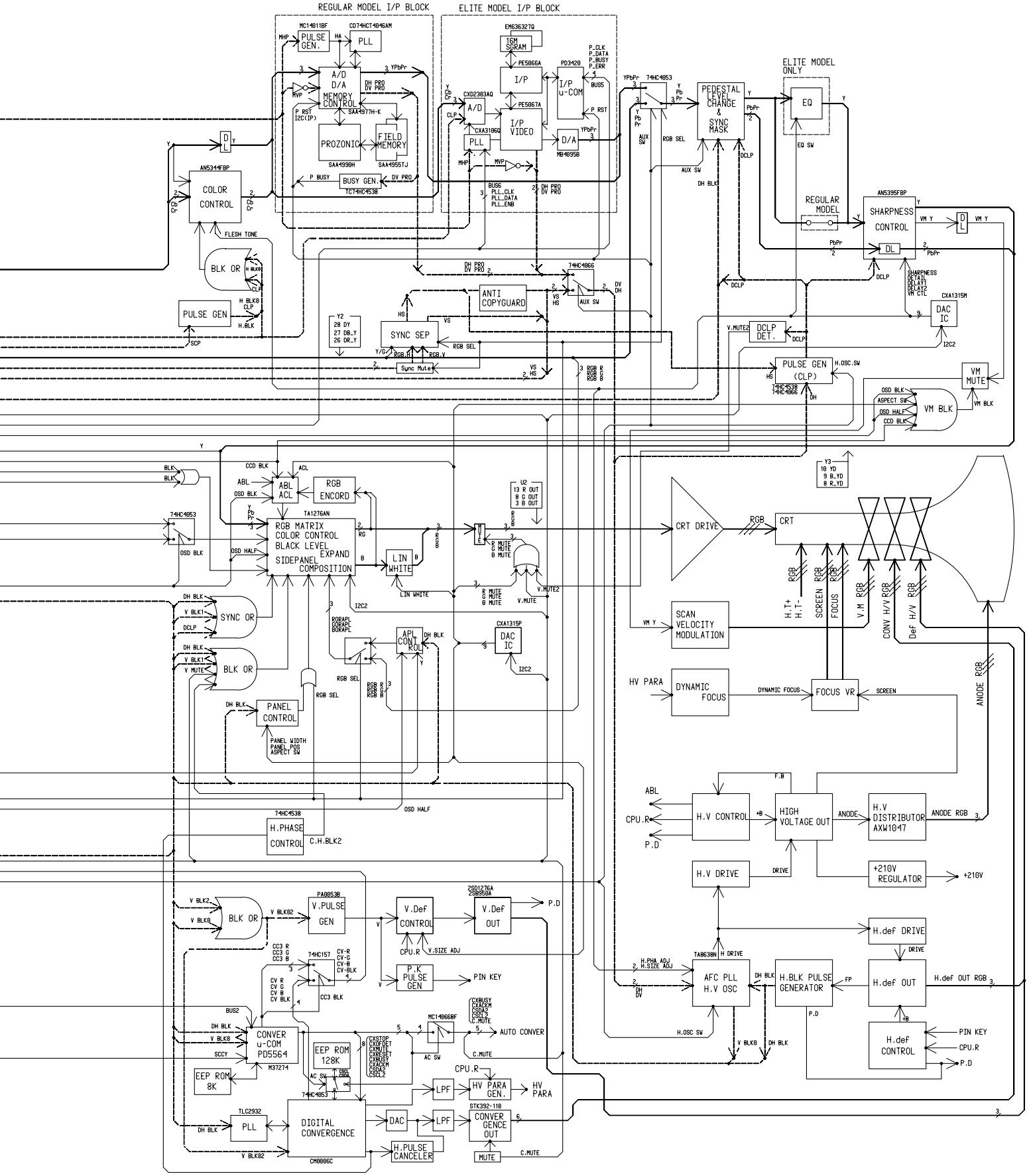
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

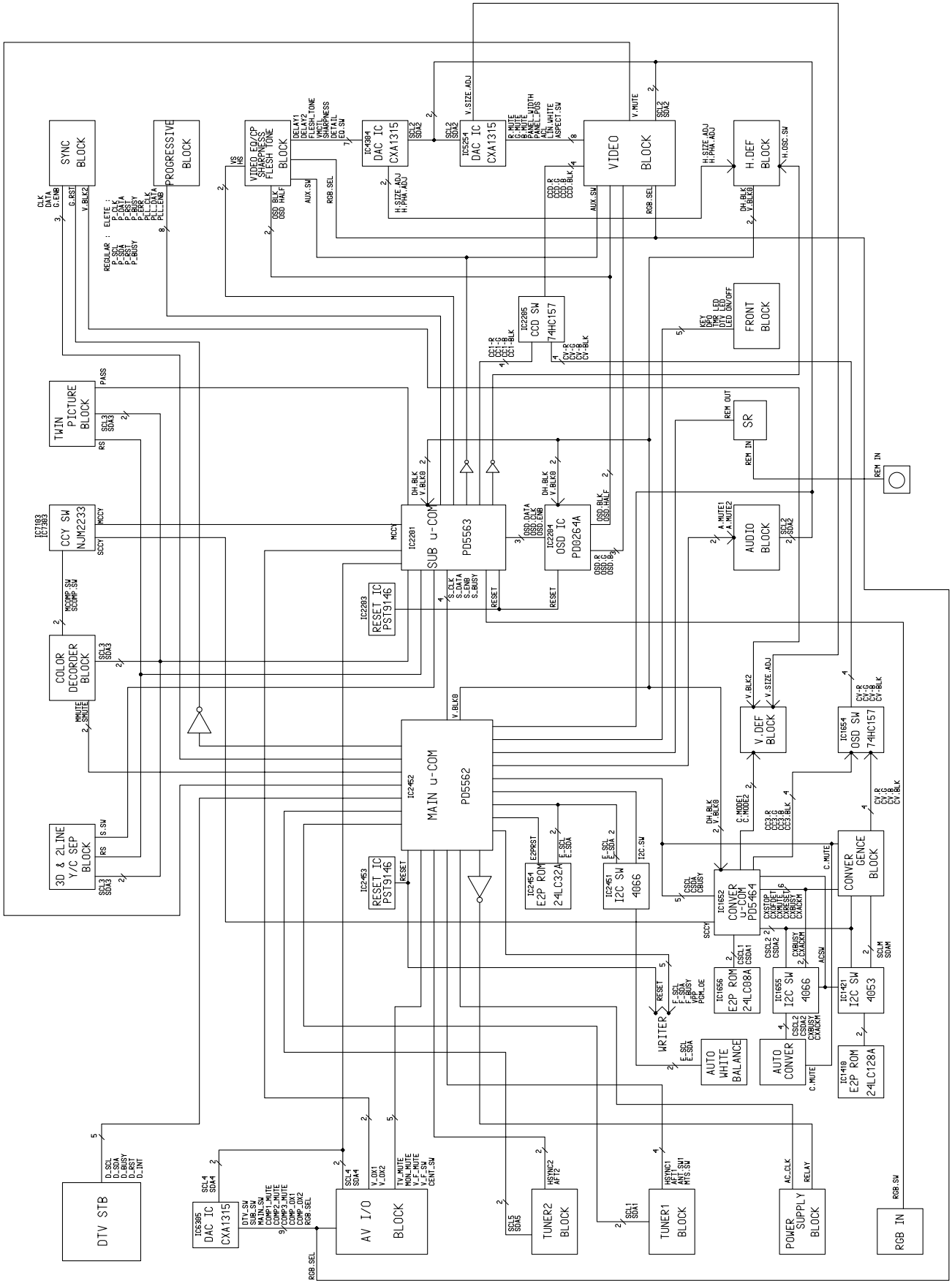
3.1.1 OVERALL BLOCK DIAGRAM



Note : Model names indicated by "ELITE" and "REGULAR" are as follows:
ELITE : PRO-610HD and PRO-510HD, REGULAR : SD-582HD5 and SD-532HD5

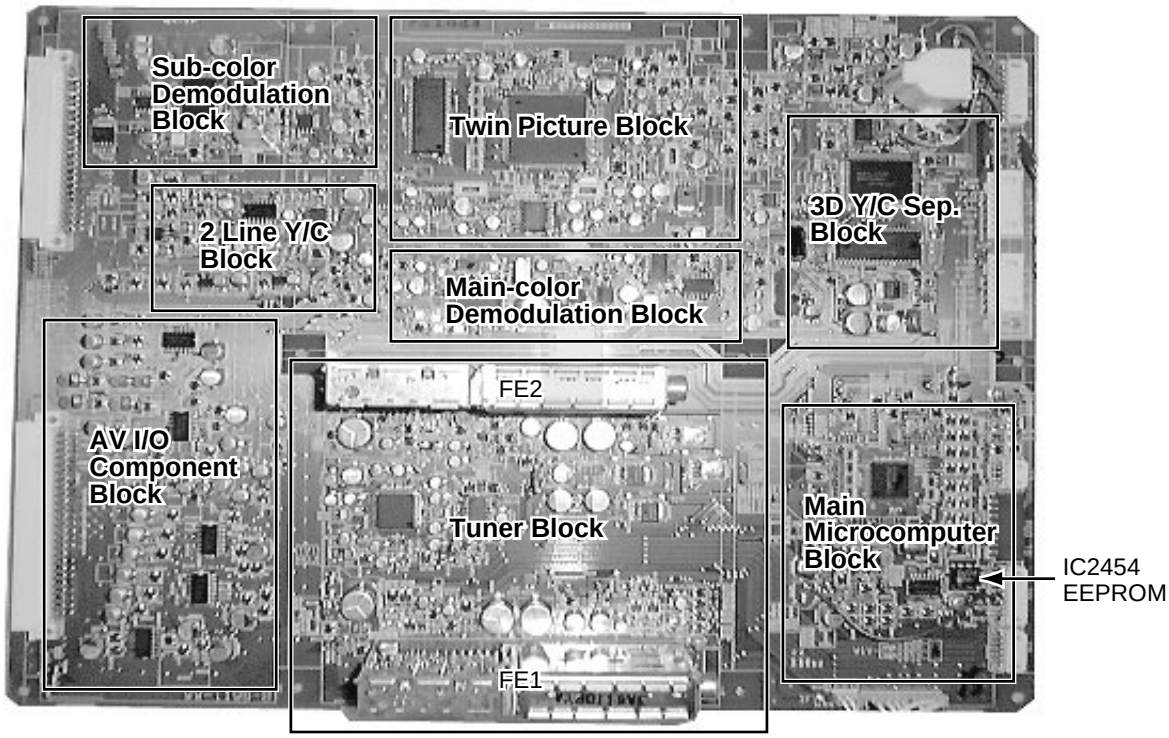


3.1.2 CONTROL BLOCK

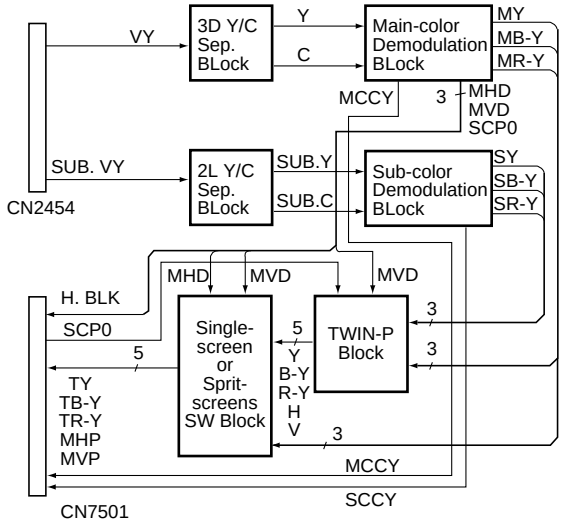


3.1.3 SIGNAL BLOCK

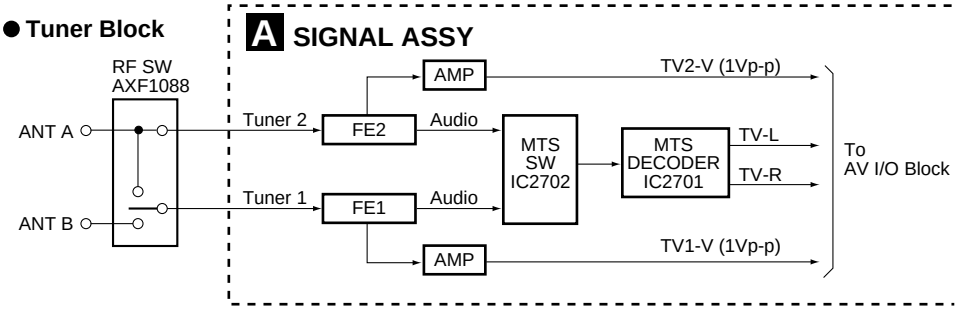
A SIGNAL ASSY



● **Video Block**



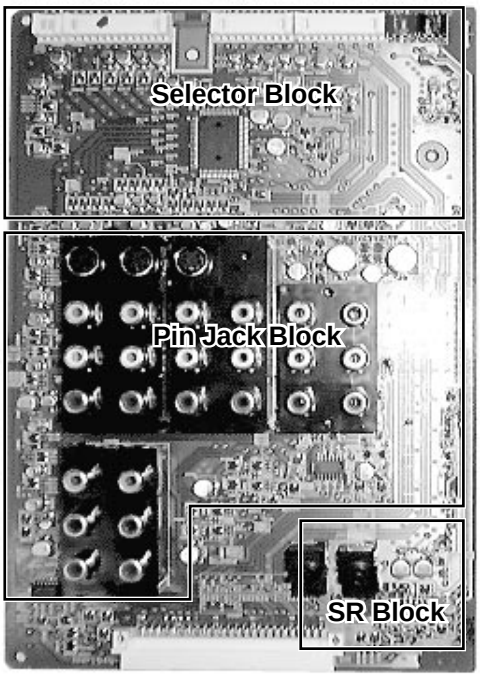
● **Tuner Block**



Note :
Main picture is able to receive the ANT A and B.
Sub picuture is able to receive the ANT A only.

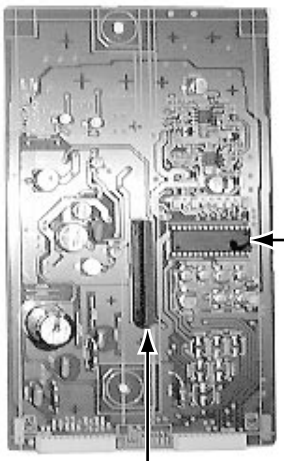
3.1.4 AV I/O and AUDIO ASSYS

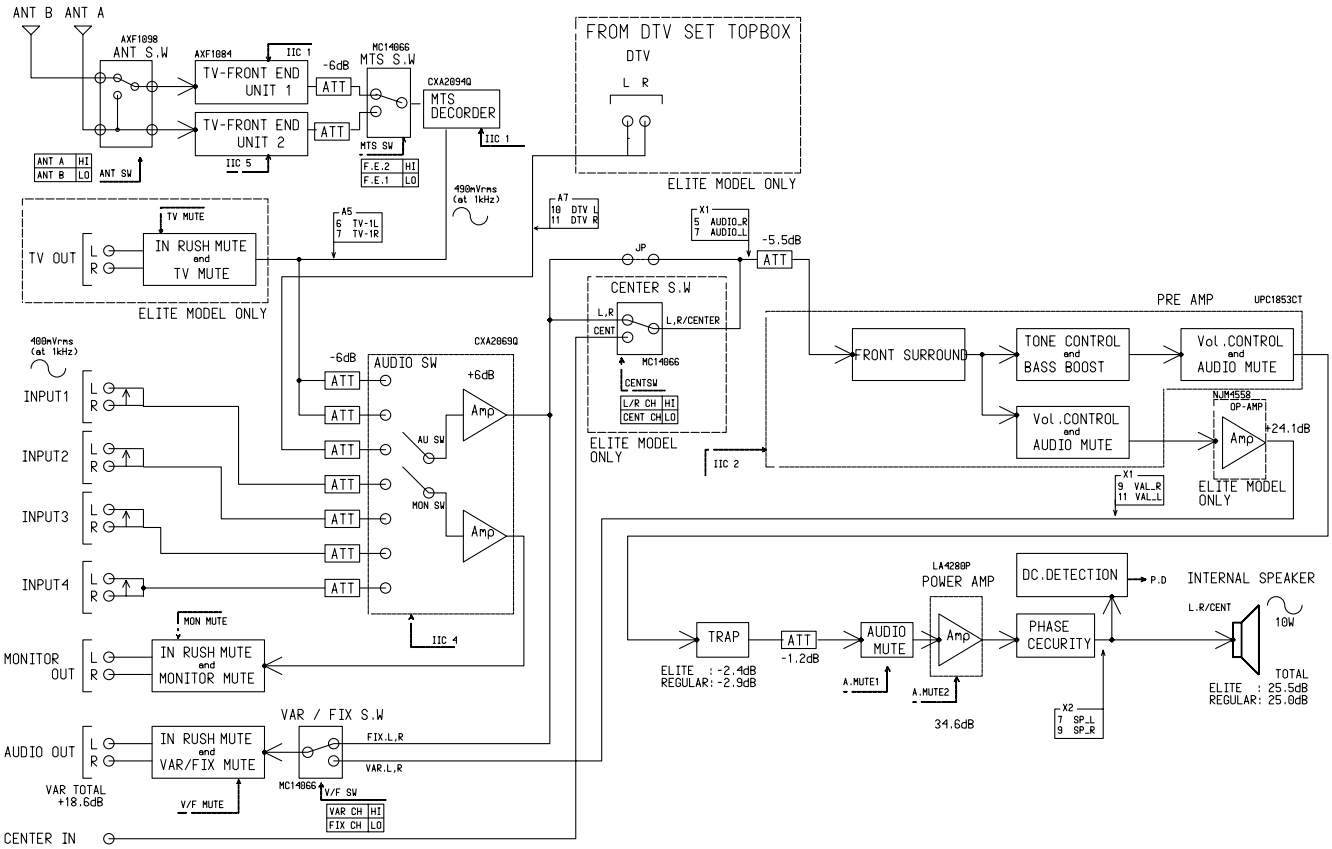
B AV I/O ASSY



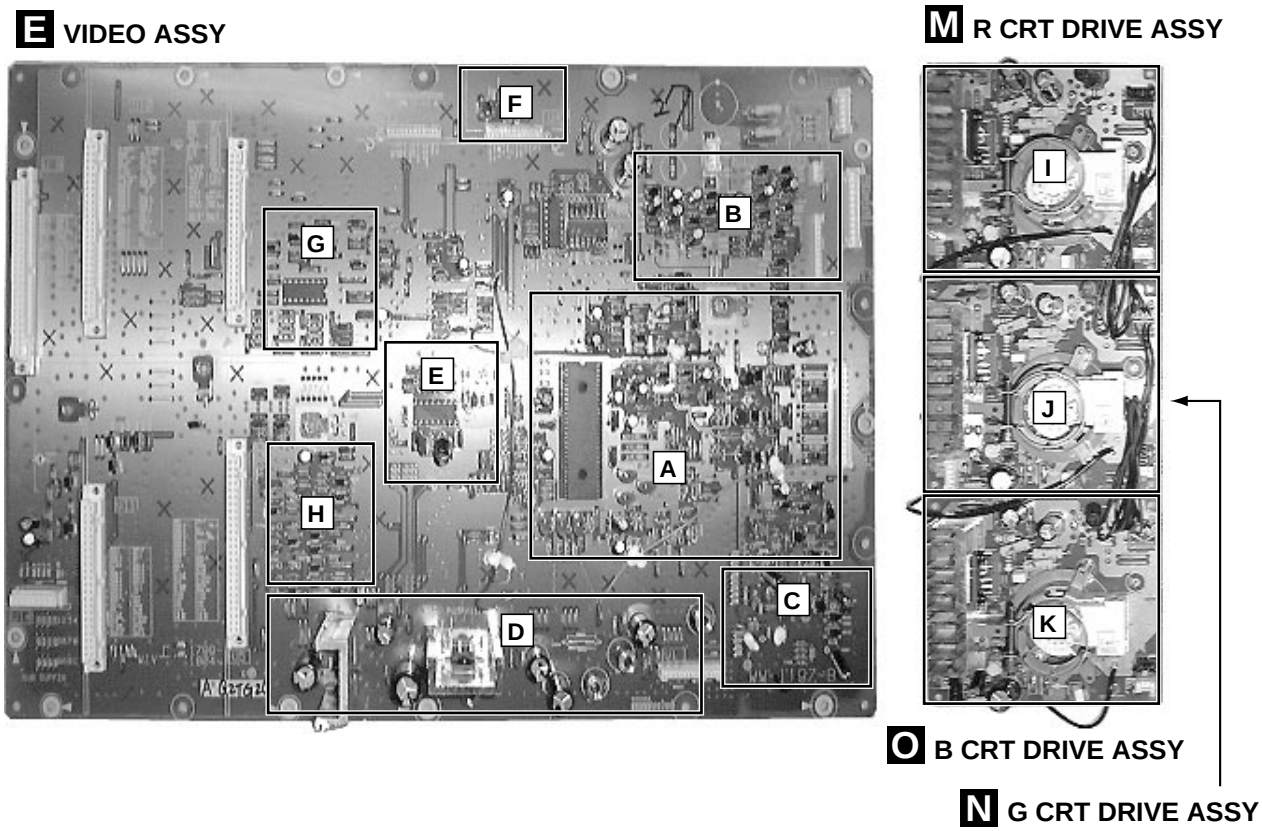
NOTE) The AUDIO Assy show the state without the heat sink.
Please attach the heat sink when you install the AUDIO Assy.

G AUDIO ASSY





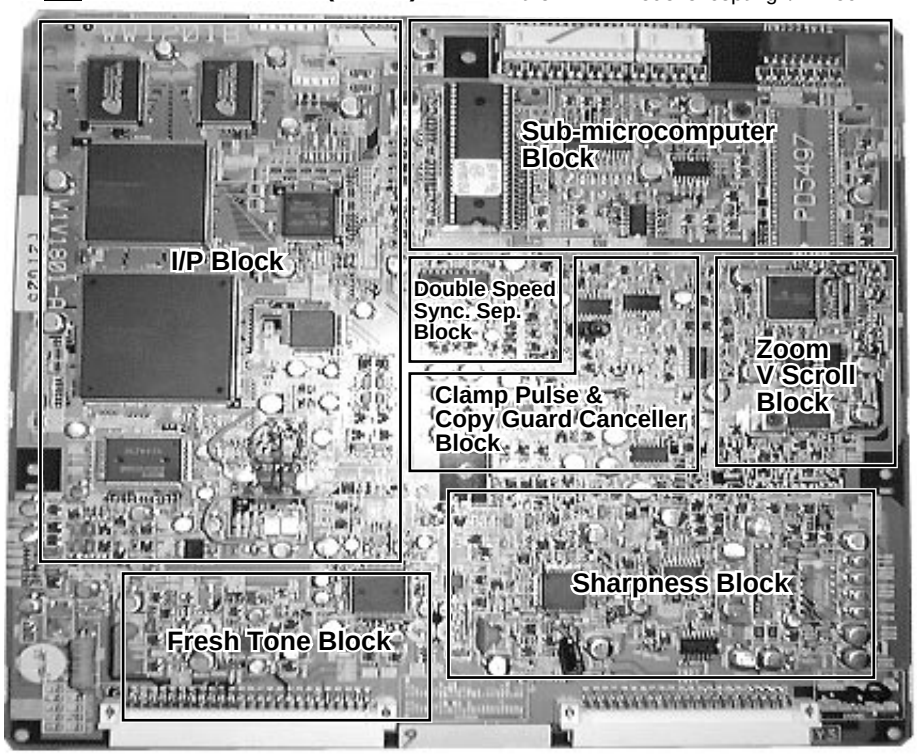
3.1.5 VIDEO, R, G and B CRT DRIVE ASSYS



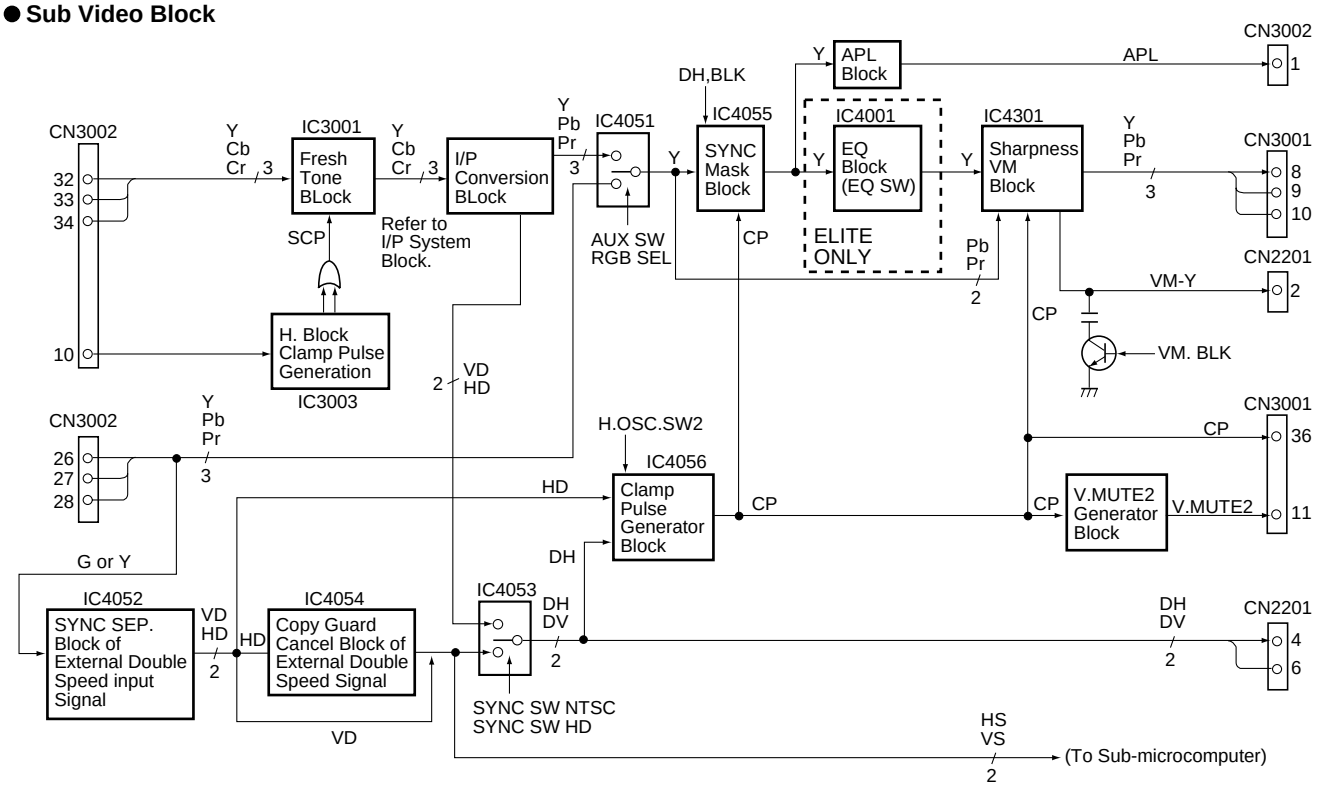
3.1.6 SUB VIDEO ASSY

H SUB VIDEO ASSY (ELITE)

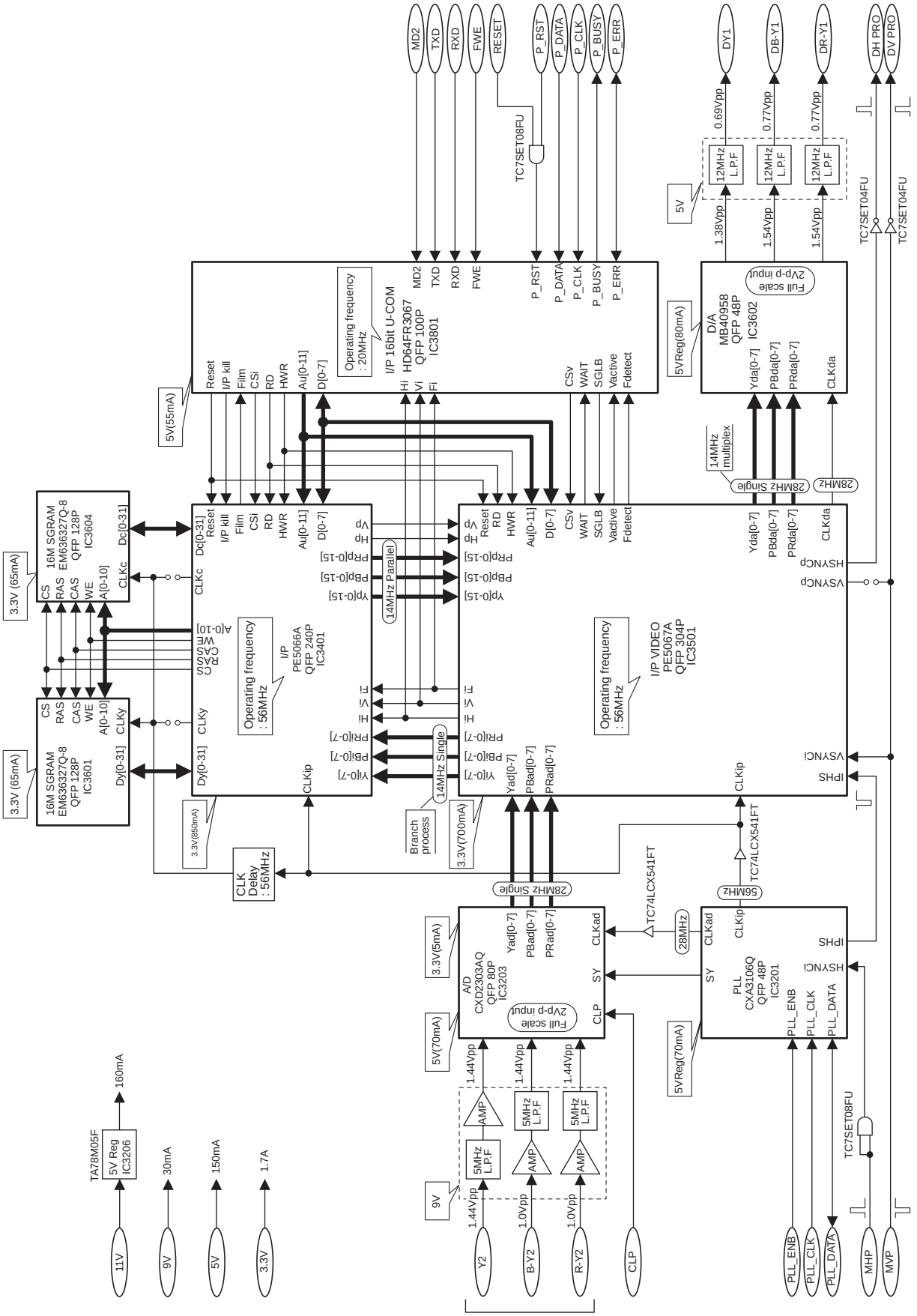
Note : SUB VIDEO ASSY of the REGULAR model is the same as that of the ELITE model excepting I/P Block.



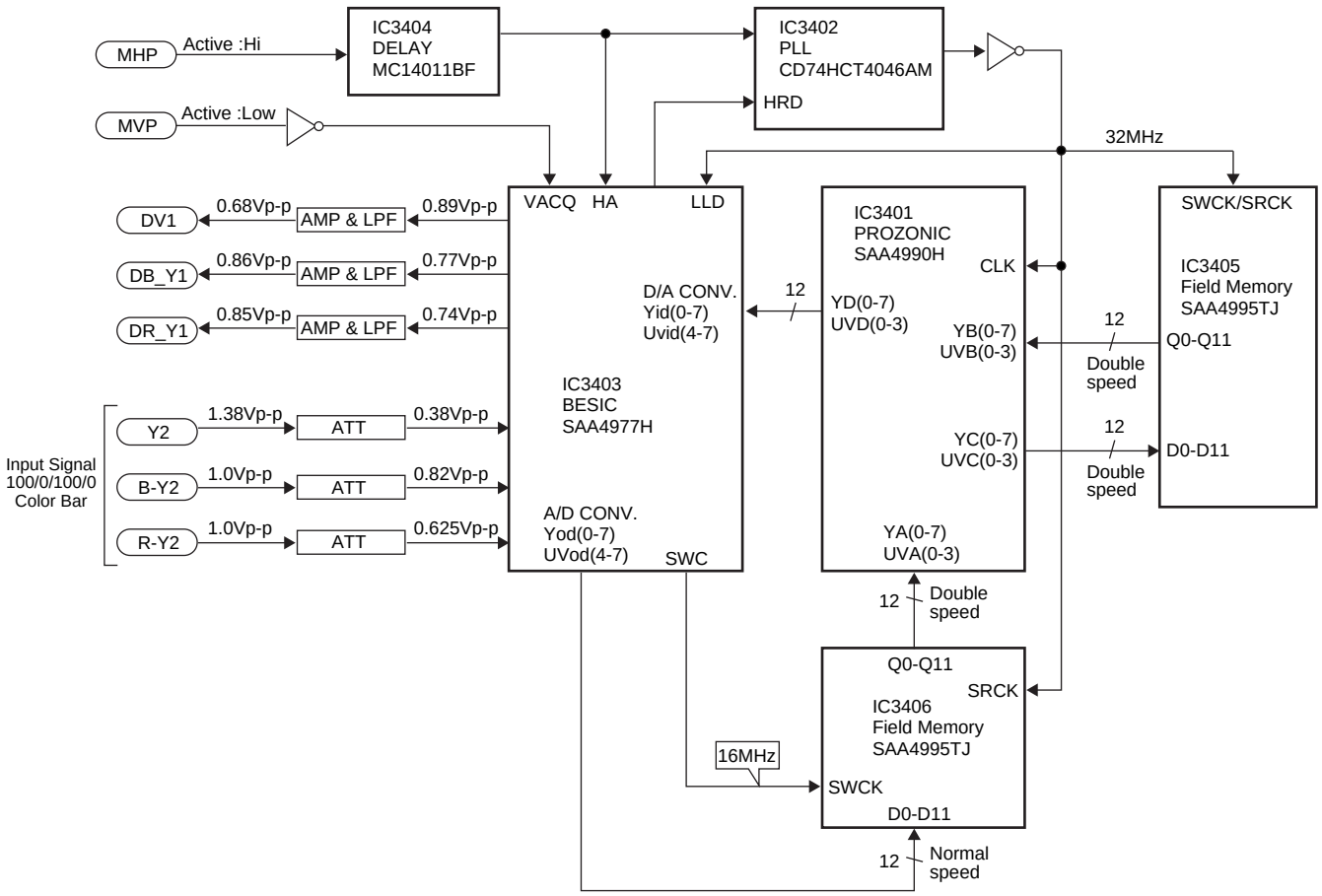
● **Sub Video Block**



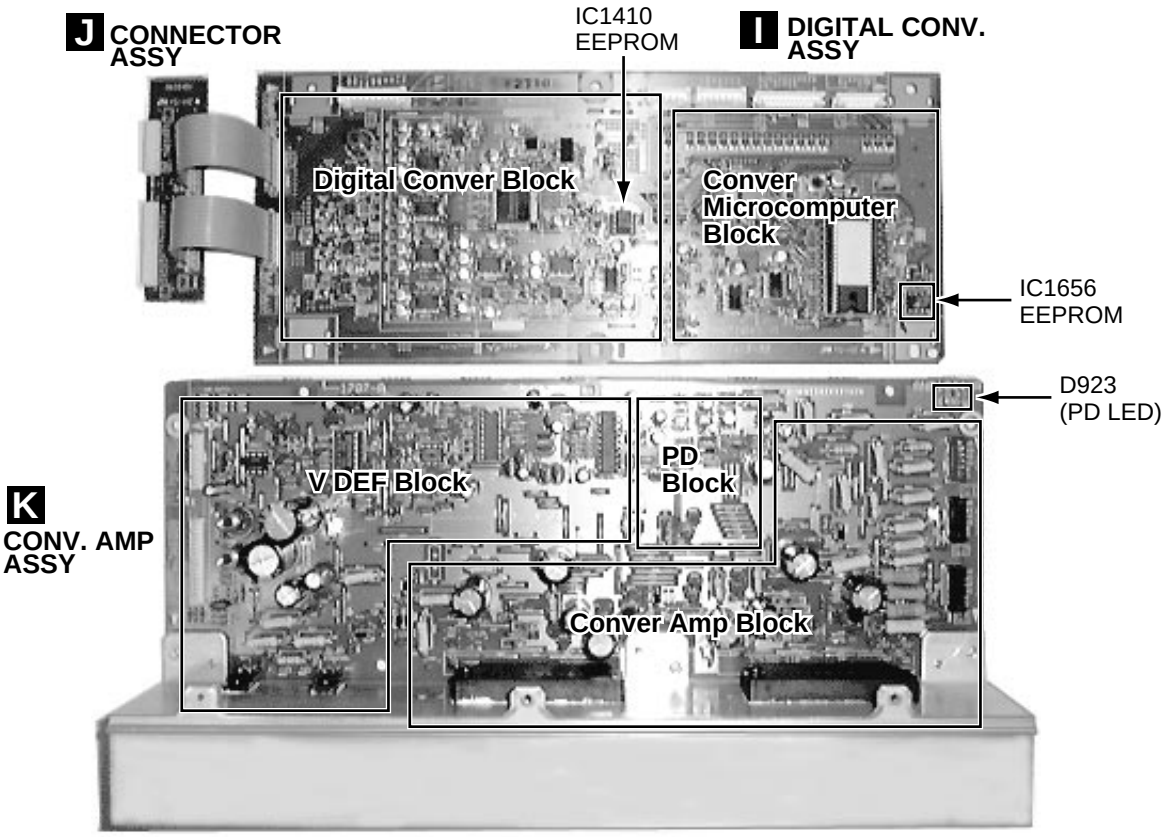
● I/P System Block (ELITE)

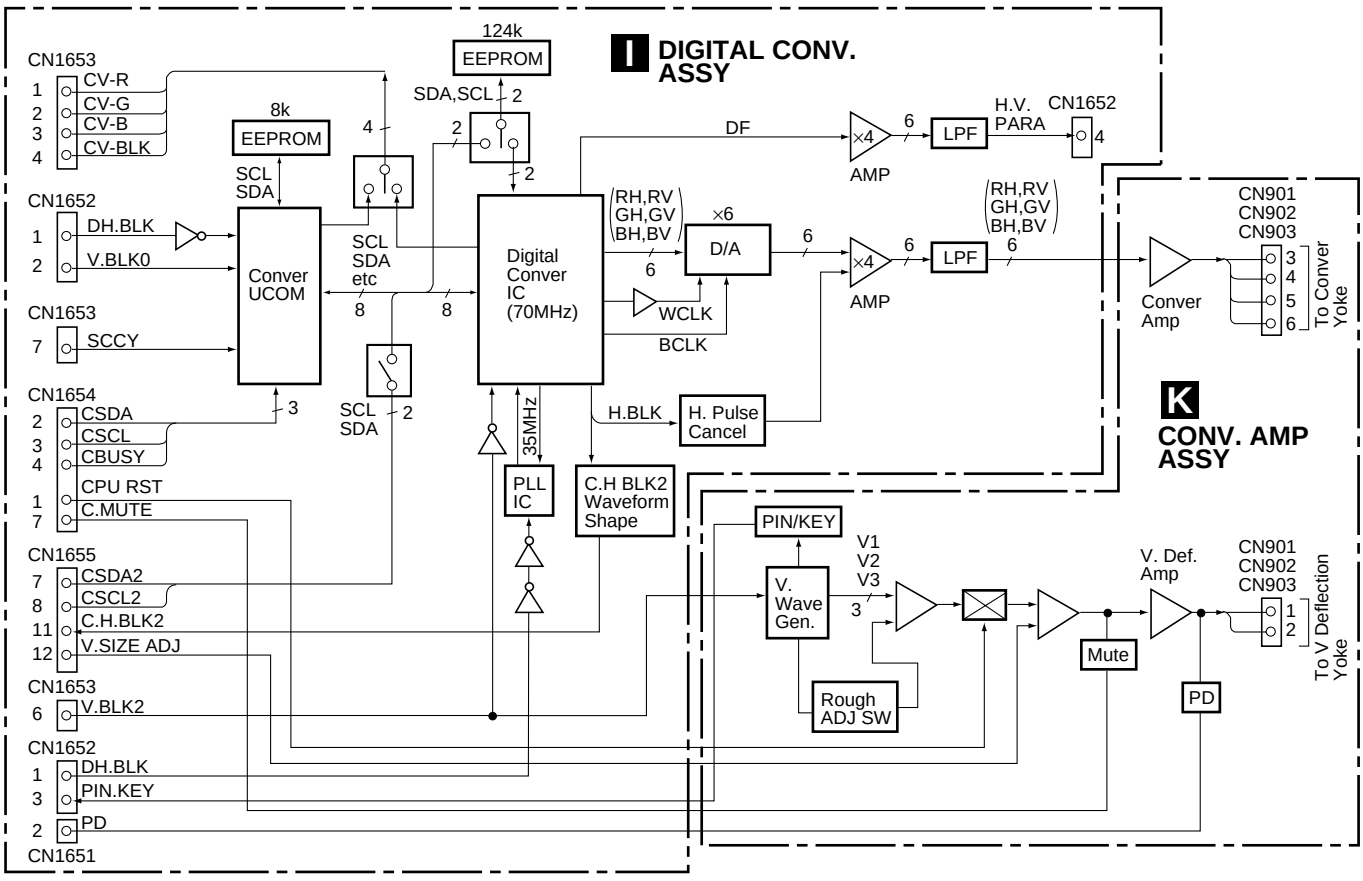


● **I/P System Block (REGULAR)**



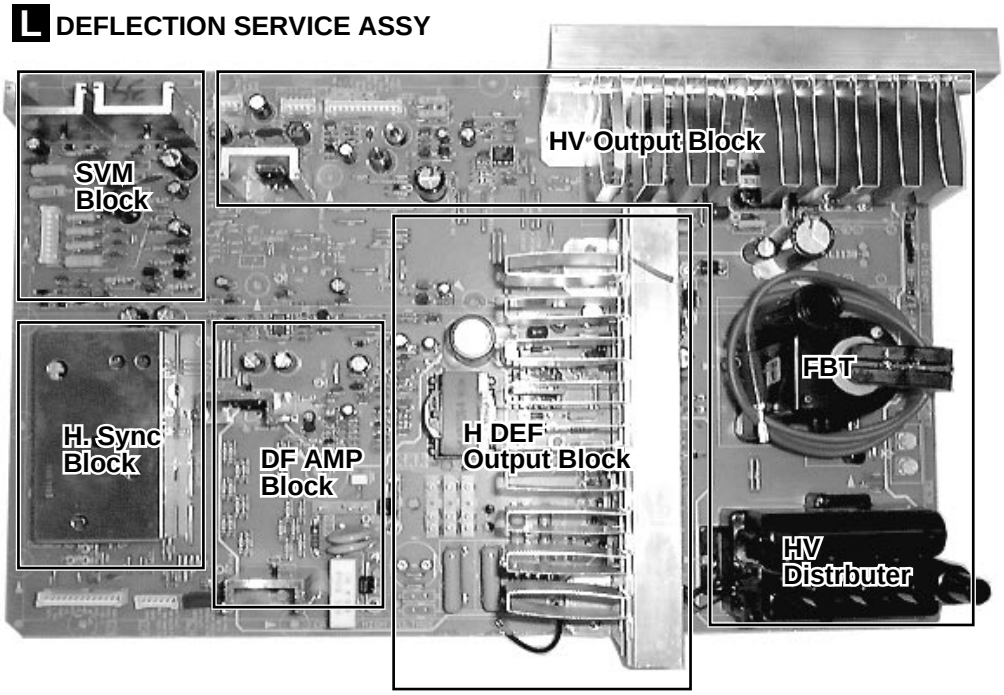
3.1.7 DIGITAL CONV., CONNECTOR and CONV. AMP ASSYS

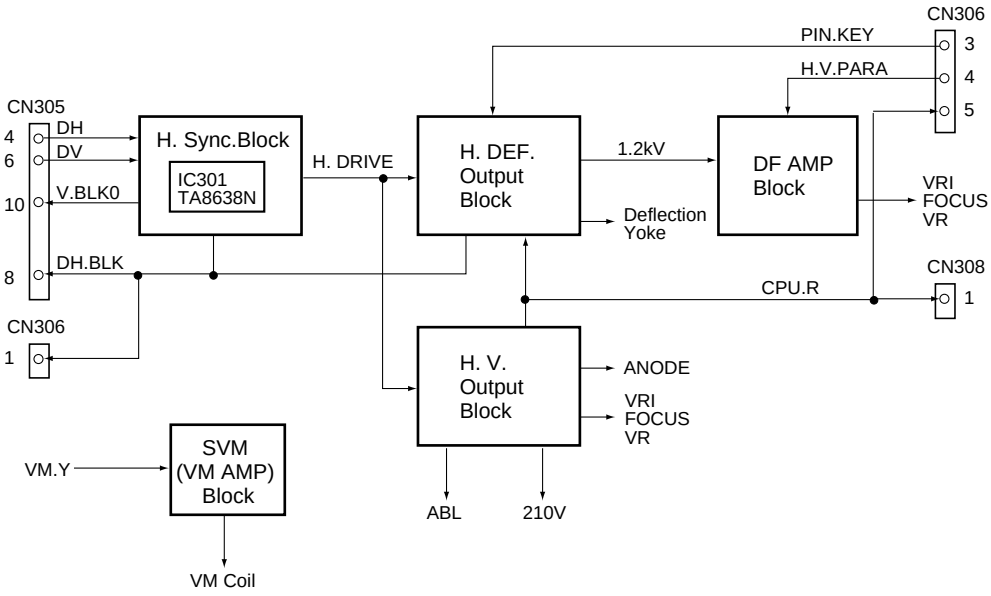




3.1.8 DEFLECTION SERVICE ASSY

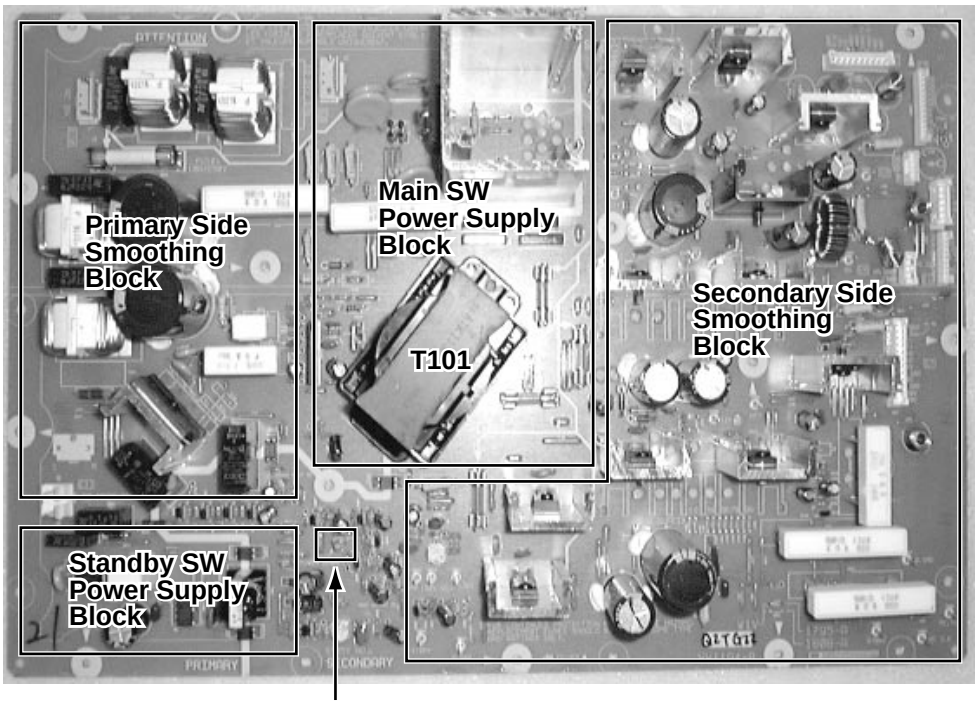
L DEFLECTION SERVICE ASSY

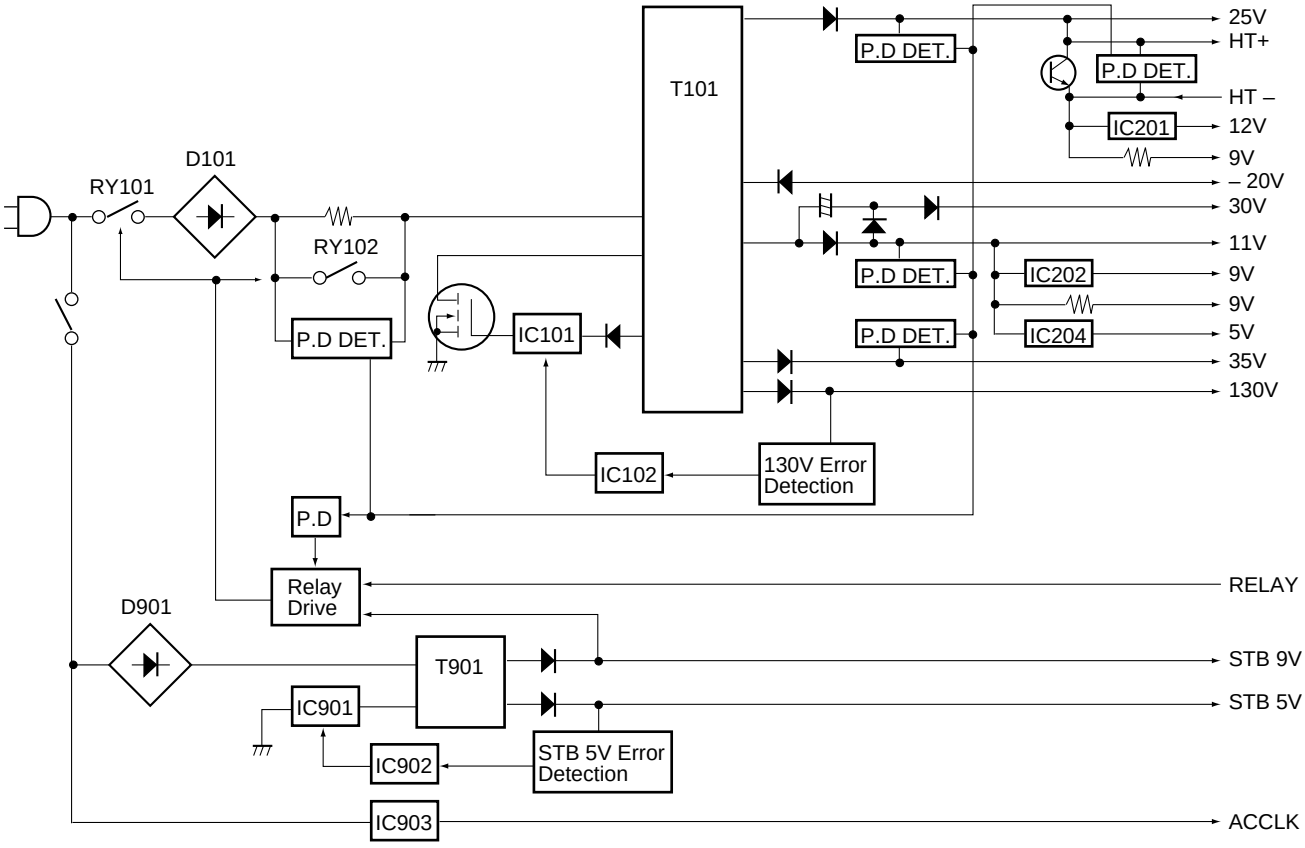




3.1.9 POWER SUPPLY SERVICE ASSY

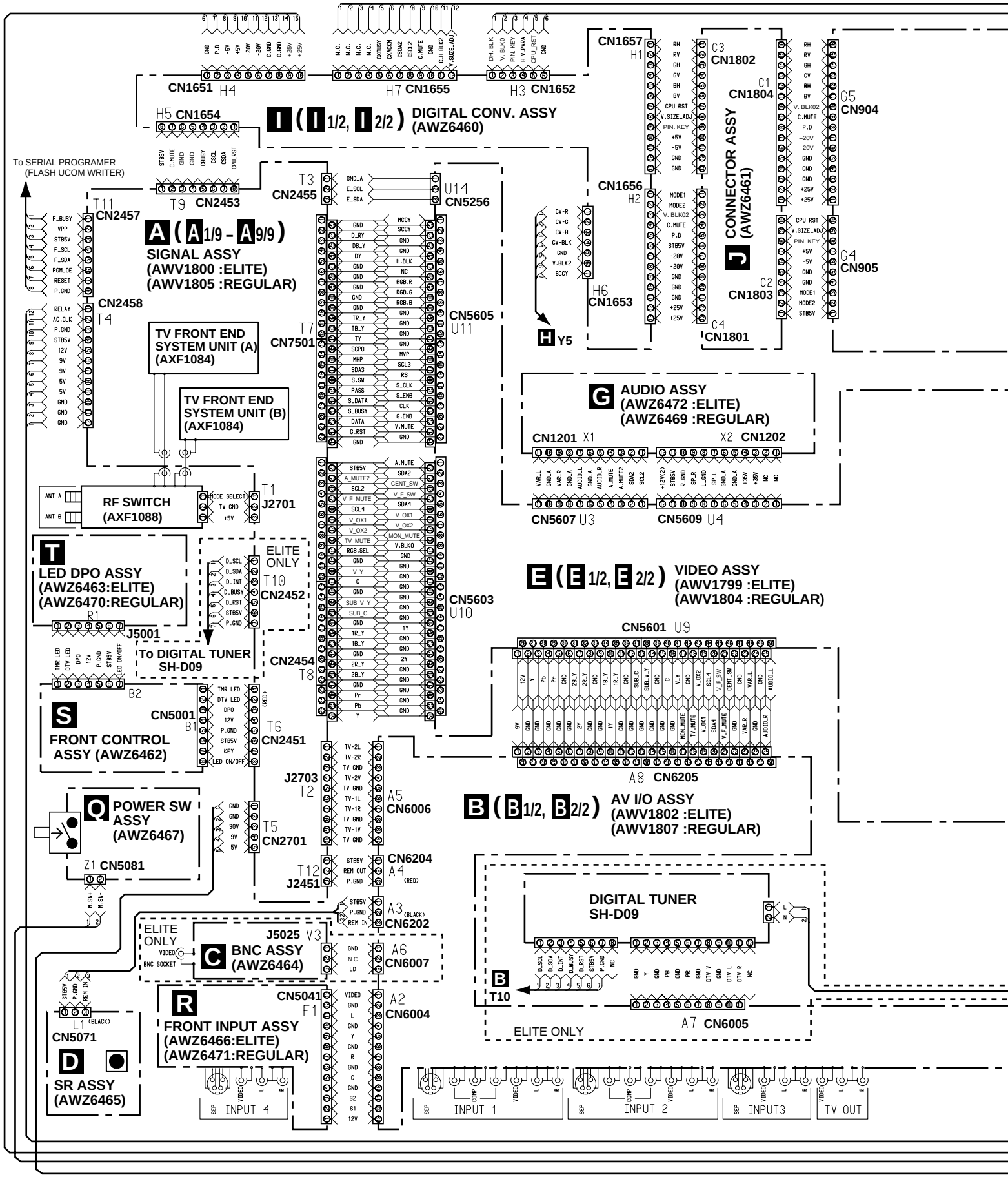
P POWER SUPPLY SERVICE ASSY



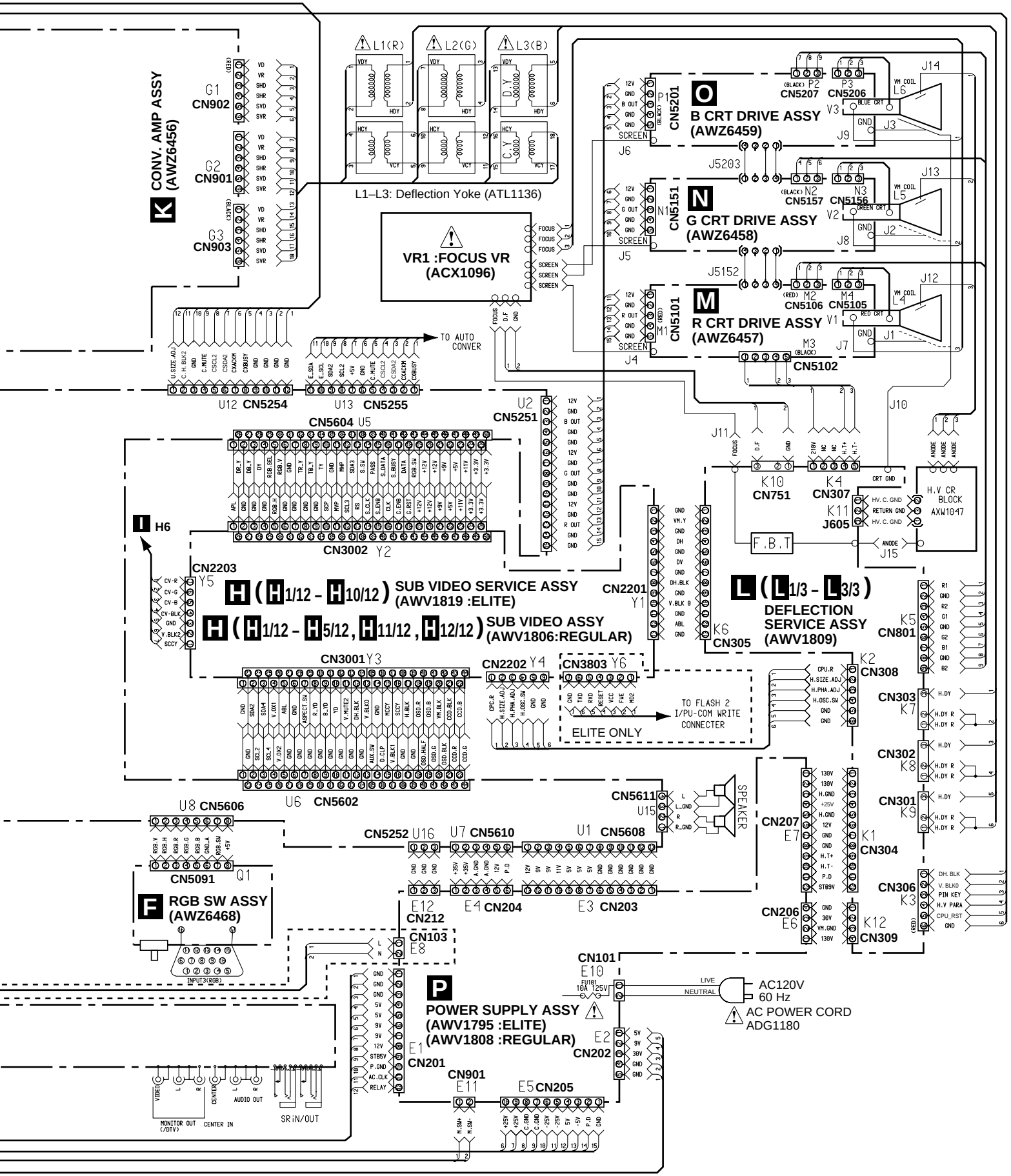


3.2 OVERALL CONNECTION DIAGRAM

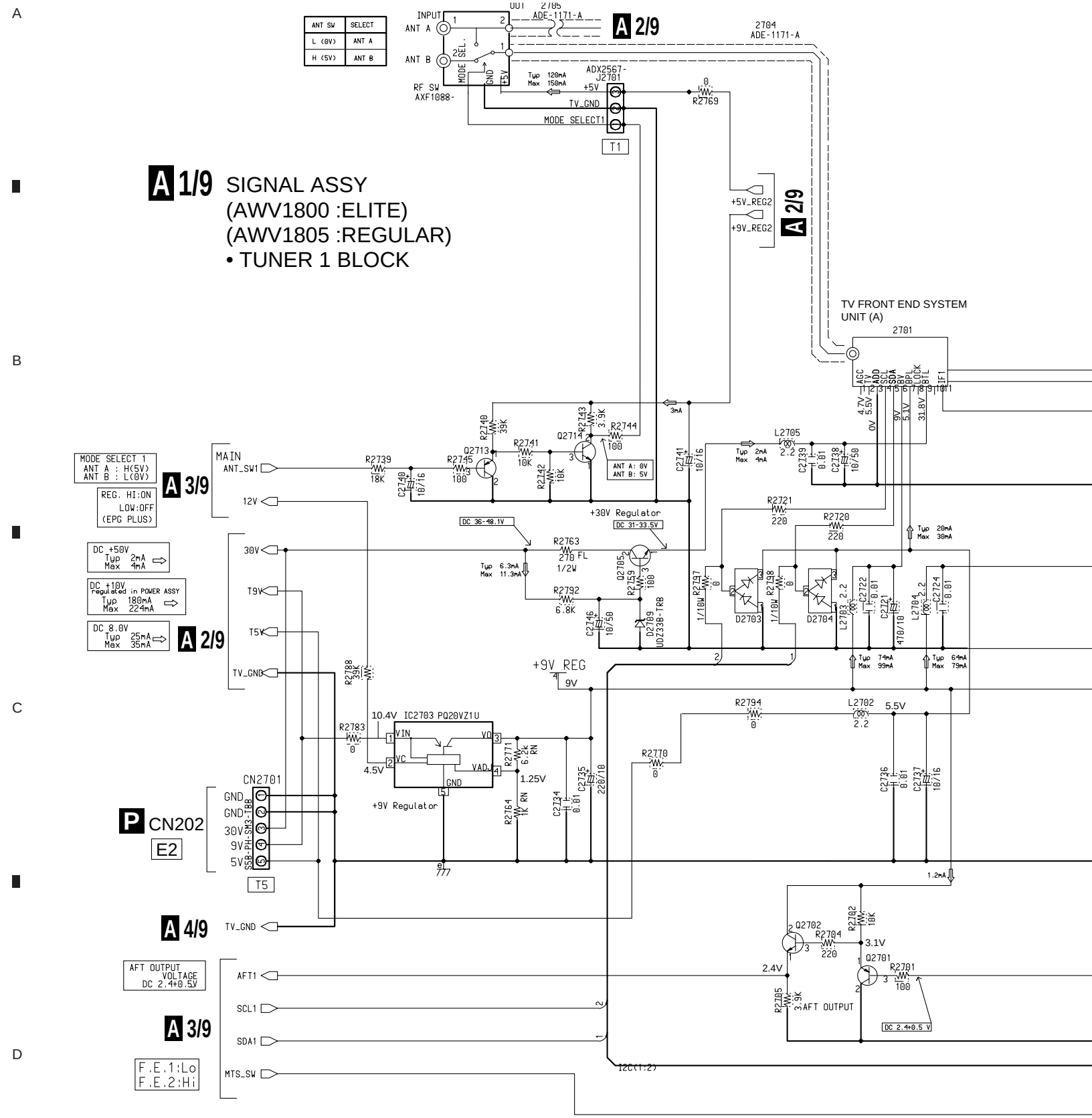
Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



Note : Model names indicated by "ELITE" and "REGULAR" are as follows:
ELITE : PRO-610HD and PRO-510HD, REGULAR : SD-582HD5 and SD-532HD5



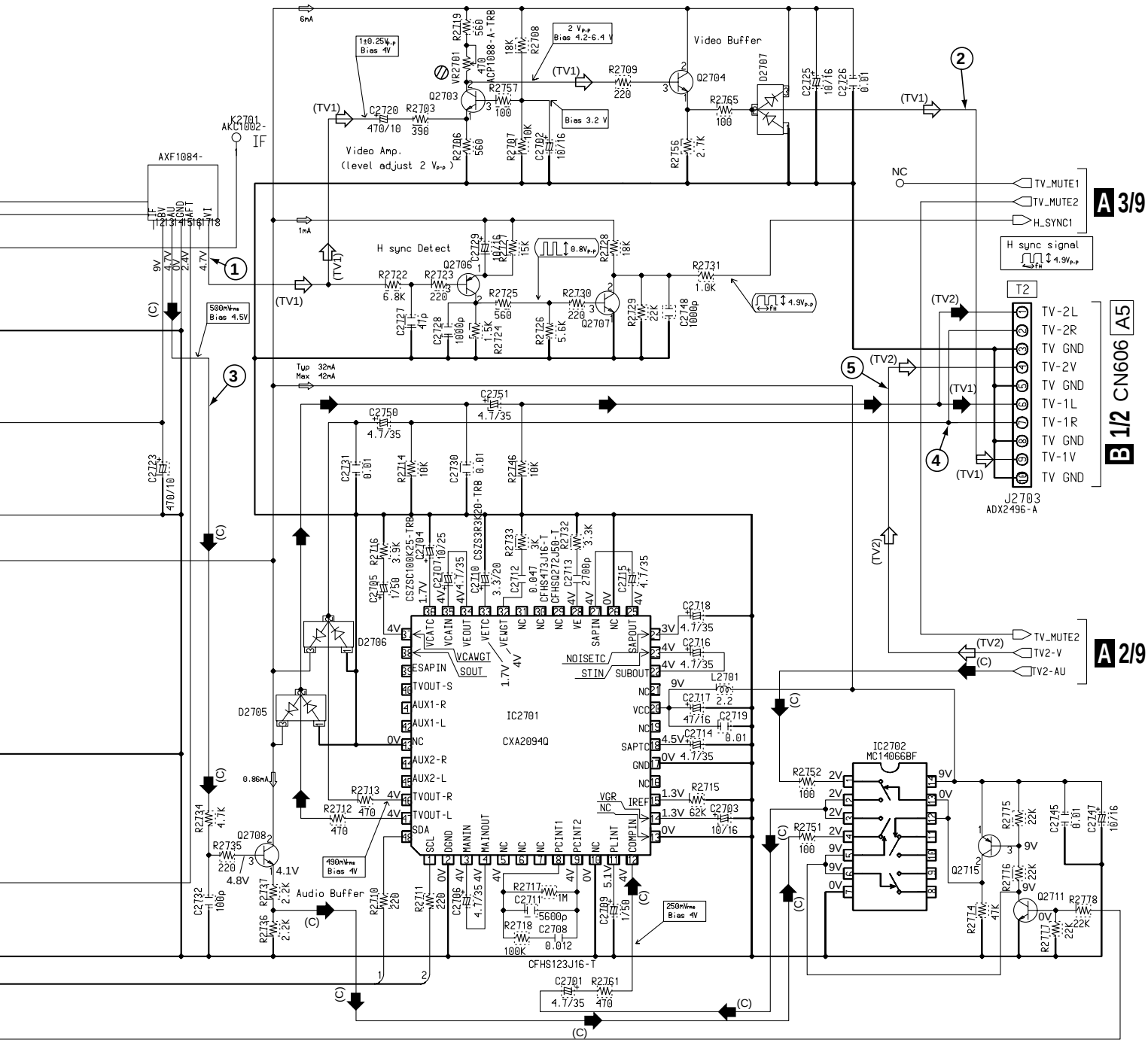
3.3 SIGNAL ASSY (1/9)



Notes
1.RESISTORS
Indicated in Ω
tolerance unless otherwise noted k Ω
2.CAPASITORS
Indicated in capacity(uF)/Voltage unless otherwise noted p pF
Indication without voltage is 50V except electrolytic capacitor.

2SA1162(YGR)-TLB
2SC2712(YGR)-TLB
1SS352-TRB
1SS226-TRB

(C) : COMPOSITE AUDIO SIGNAL ROUTE
(TV1) : VIDEO SIGNAL ROUTE (TV1)
(TV2) : VIDEO SIGNAL ROUTE (TV2)
: AUDIO SIGNAL ROUTE
(TV1) : AUDIO SIGNAL ROUTE (TV1)
(TV2) : AUDIO SIGNAL ROUTE (TV2)

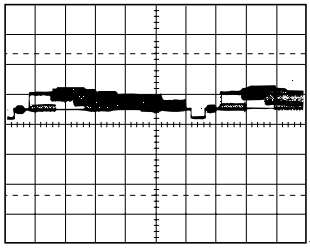


3.4 SIGNAL ASSY (2/9)

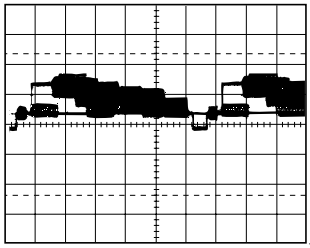
A 1/9 SIGNAL ASSY (1/9)

Input signal
Video signal : EIA full color-bar
Picture quality : Standard
Range :DC range (Unless otherwise noted)

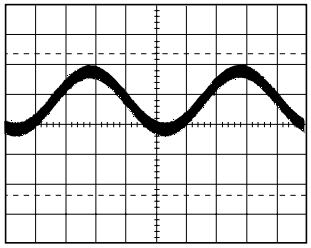
① 2701-pin 18
V: 1V/div. H: 10µsec/div.



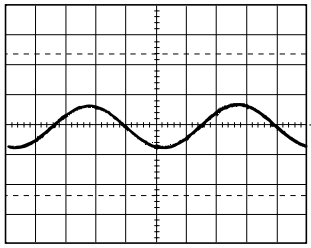
② J2703-pin 9
V: 1V/div. H: 10µsec/div.



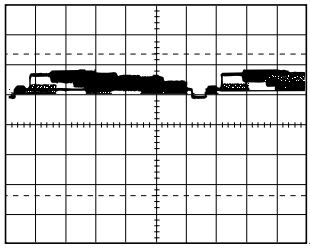
③ 2701-pin 14
V: 1V/div. H: 200µsec/div.

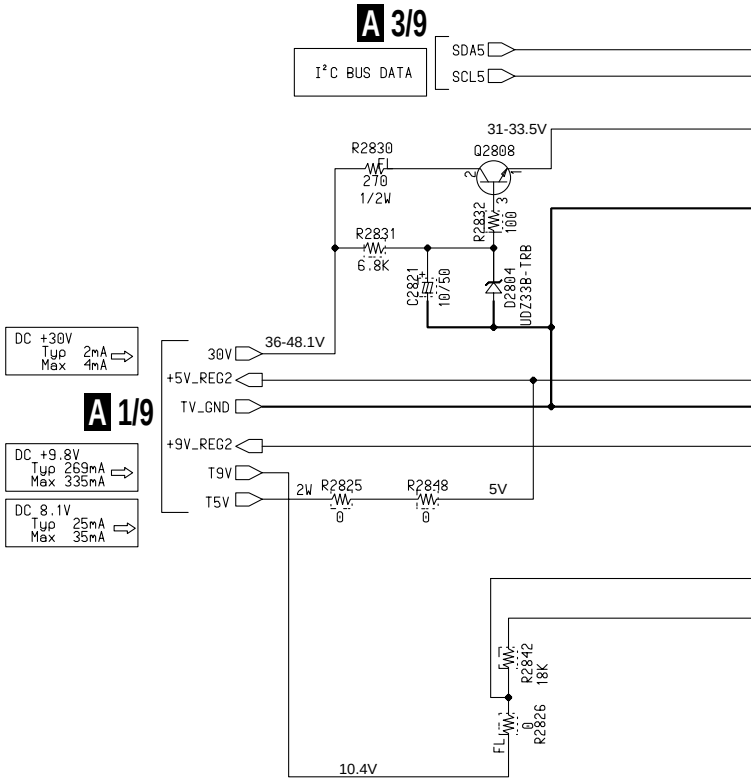


④ J2703-pin 2, 7
V: 1V/div. H: 200µsec/div.



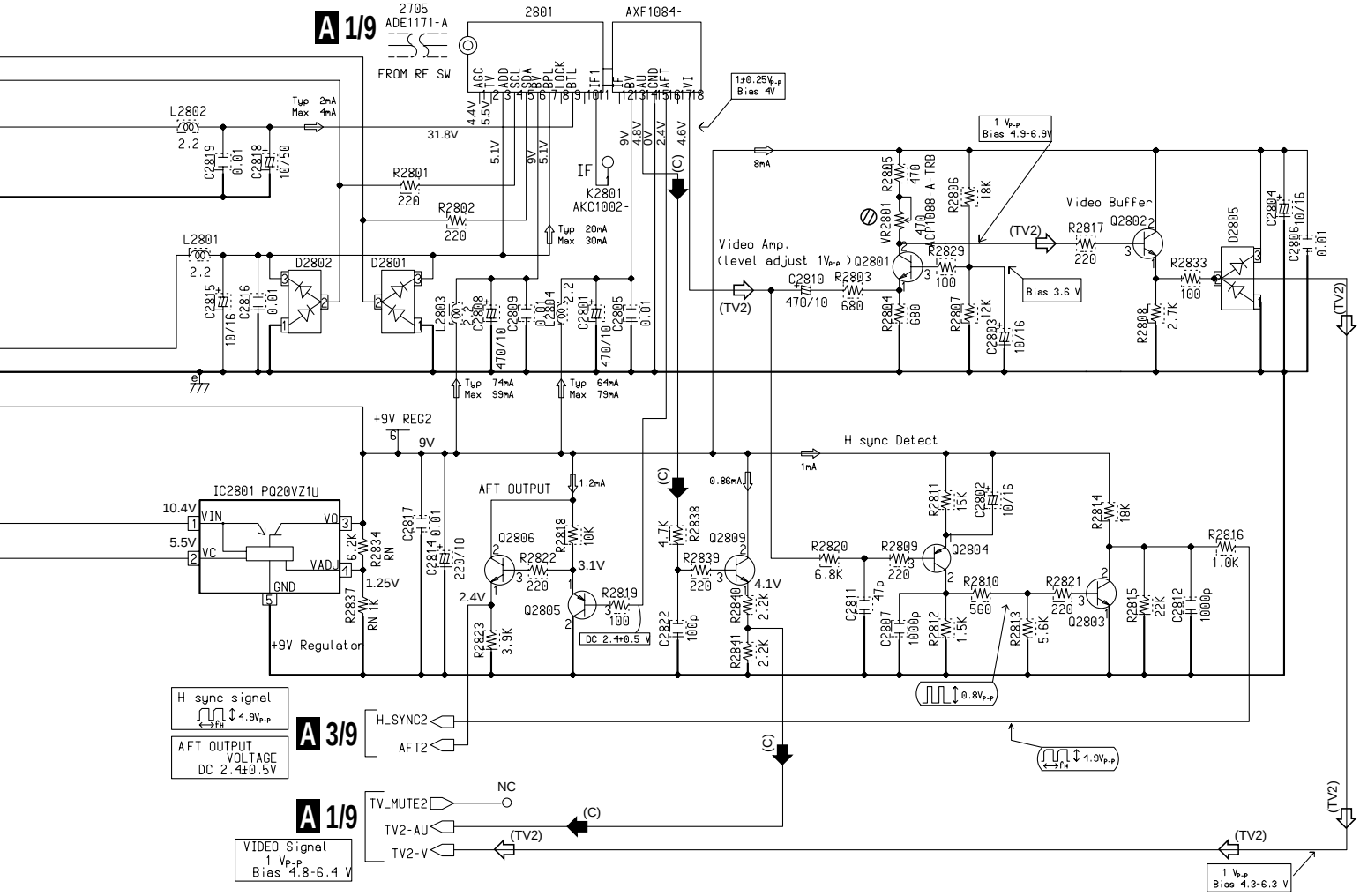
⑤ J2703-pin 4
V: 1V/div. H: 10µsec/div.





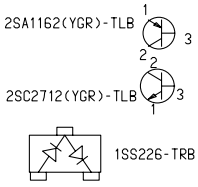
A 2/9 SIGNAL ASSY
(AWV1800 :ELITE)
(AWV1805 :REGULAR)
• TUNER 2 BLOCK

(TV2) : VIDEO SIGNAL ROUTE (TV2)
(C) : COMPOSITE AUDIO SIGNAL ROUTE

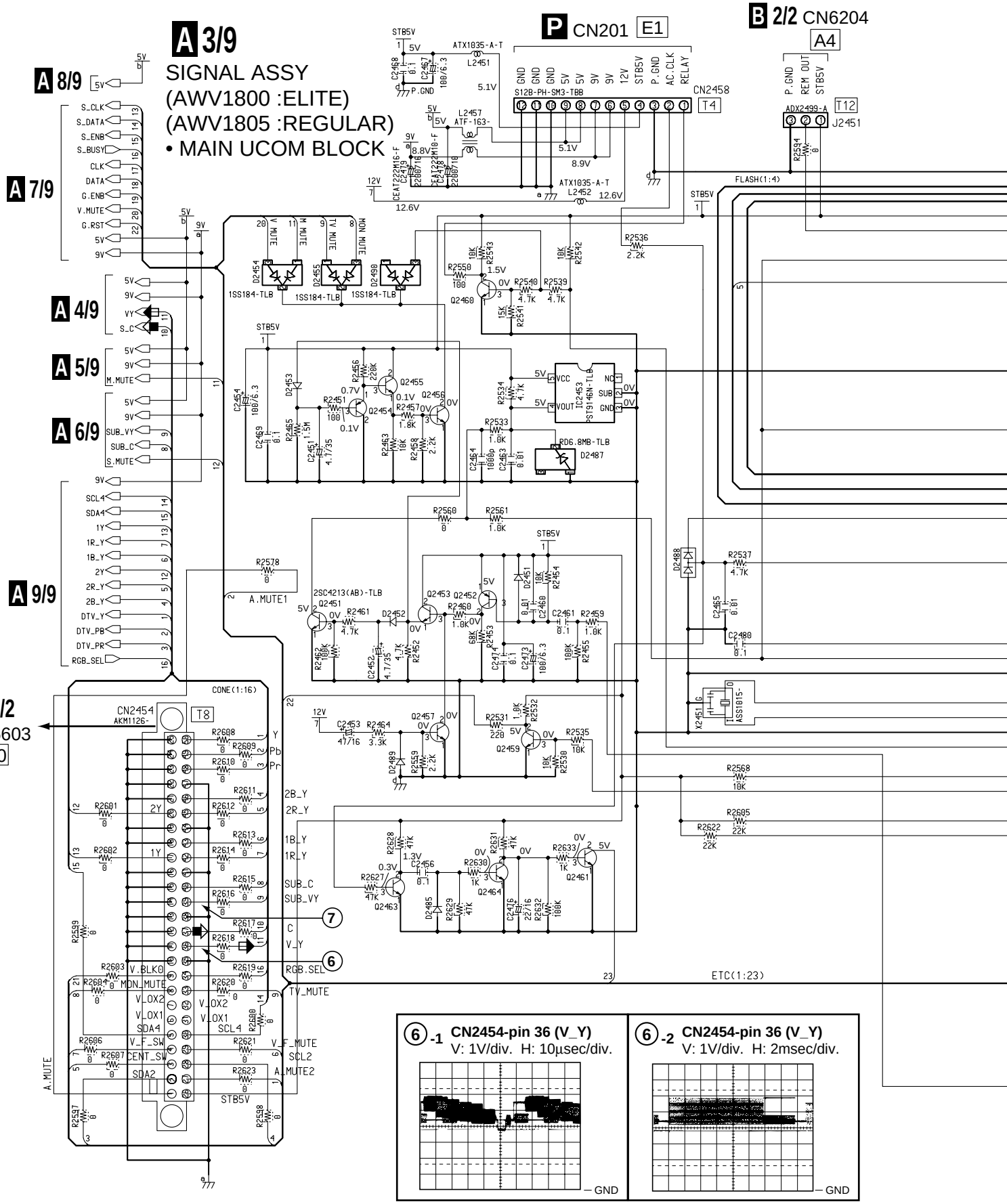


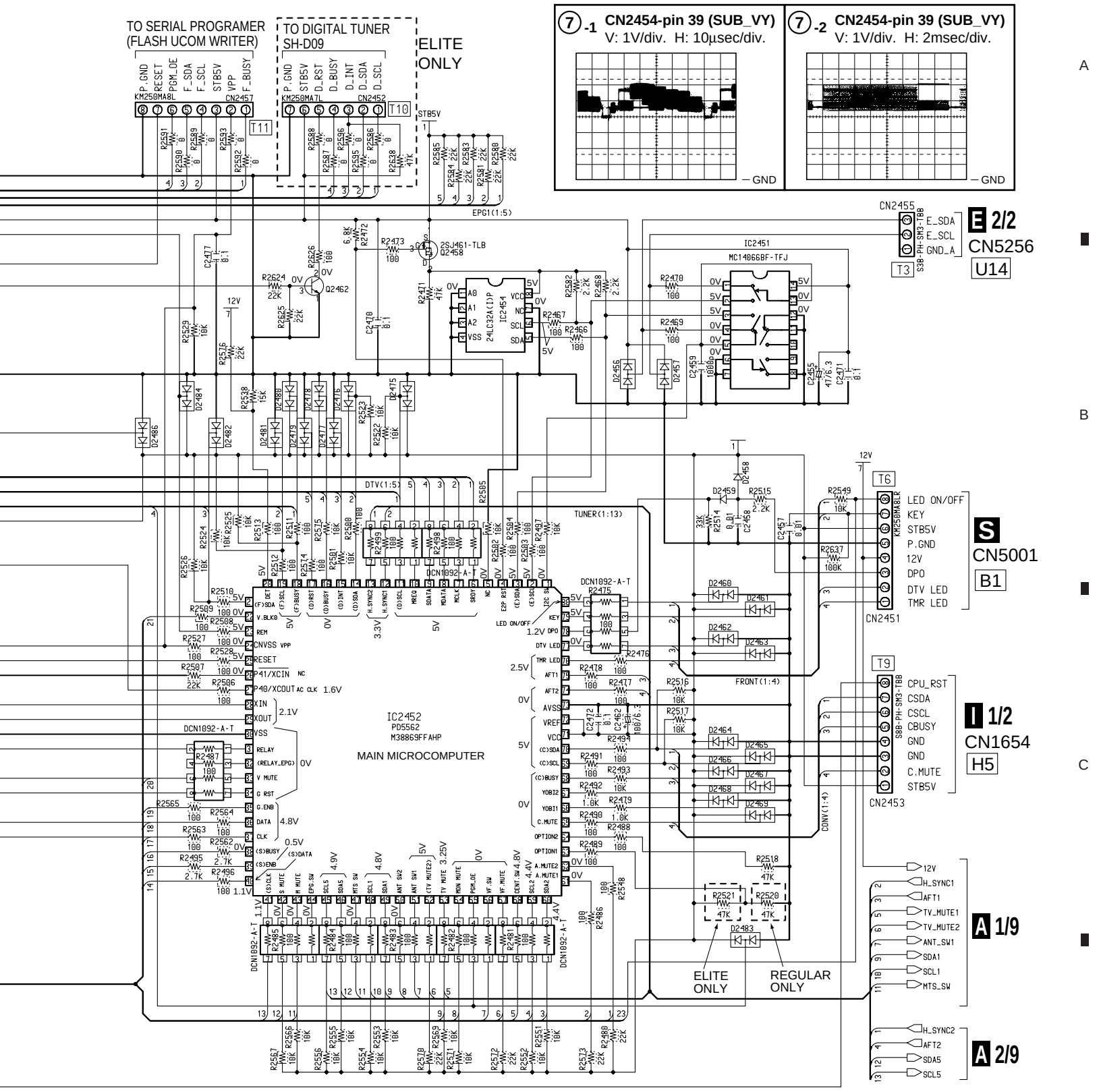
1.RESISTERS indicated in 1/2W,1/4W,1/10W,1WFL,2WFL 5%
tolerance unless otherwise noted K;kΩ , M;MΩ
(F)+1% , (G)+2% , (K)+10% , (M)+20% tolerance

2.CAPACITORS indicated in capasity (uF)/(V) unless otherwise noted pF
indicated without voltage is 50V except electrolytic capacitor



3.5 SIGNAL ASSY (3/9)





Notes
1.RESISTORS
Indicated in Ω
tolerance unless otherwise noted k Ω
2.CAPASITORS
Indicated in capacity(uF)/Voltage unless otherwise noted p pF
Indication without voltage is 50V
except electrolytic capacitor.

2SC2712(YGR)-TLB
2SA1162(YGR)-TLB
1SS352-TRB
1SS226-TRB

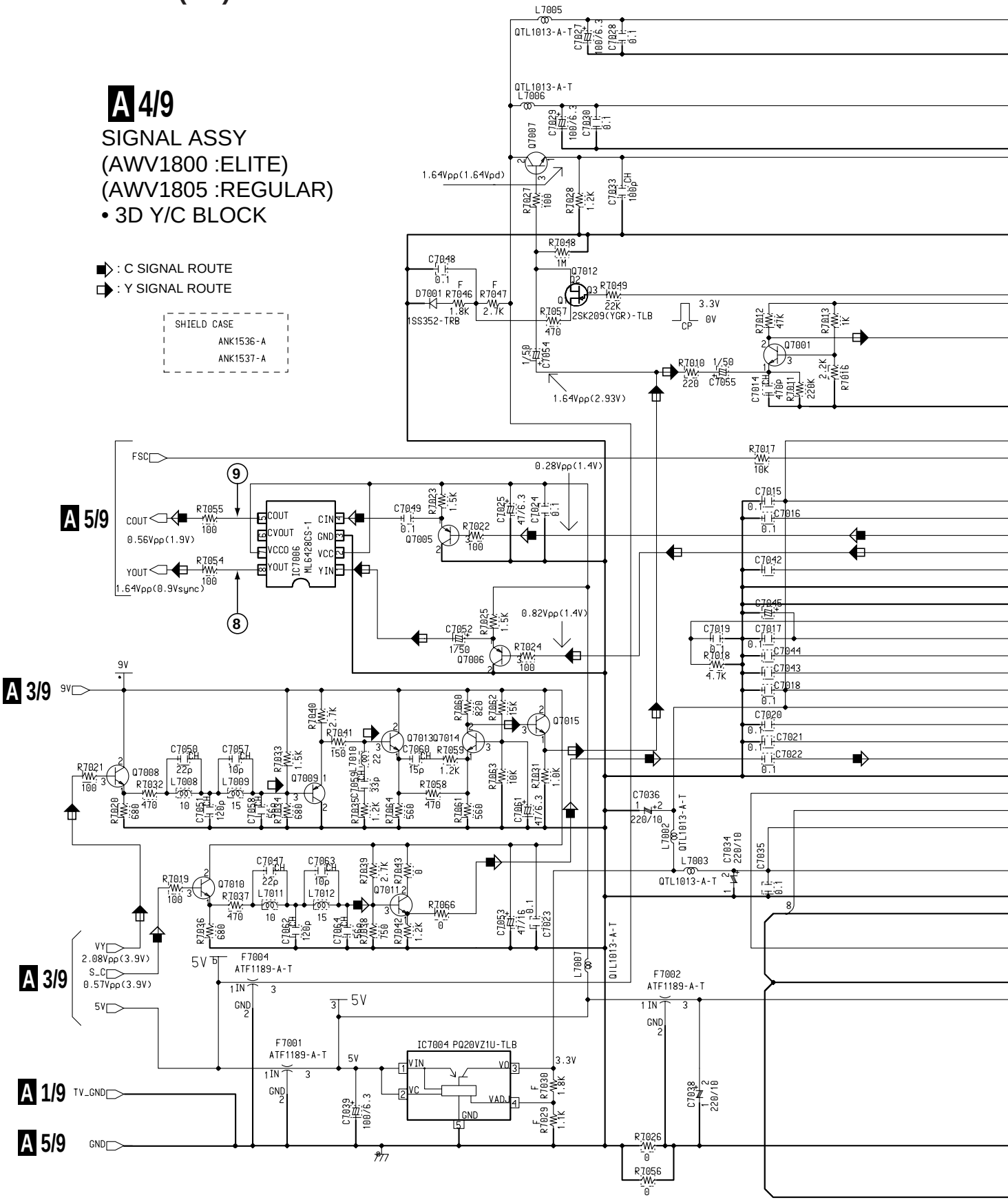
SUB SUFFIX

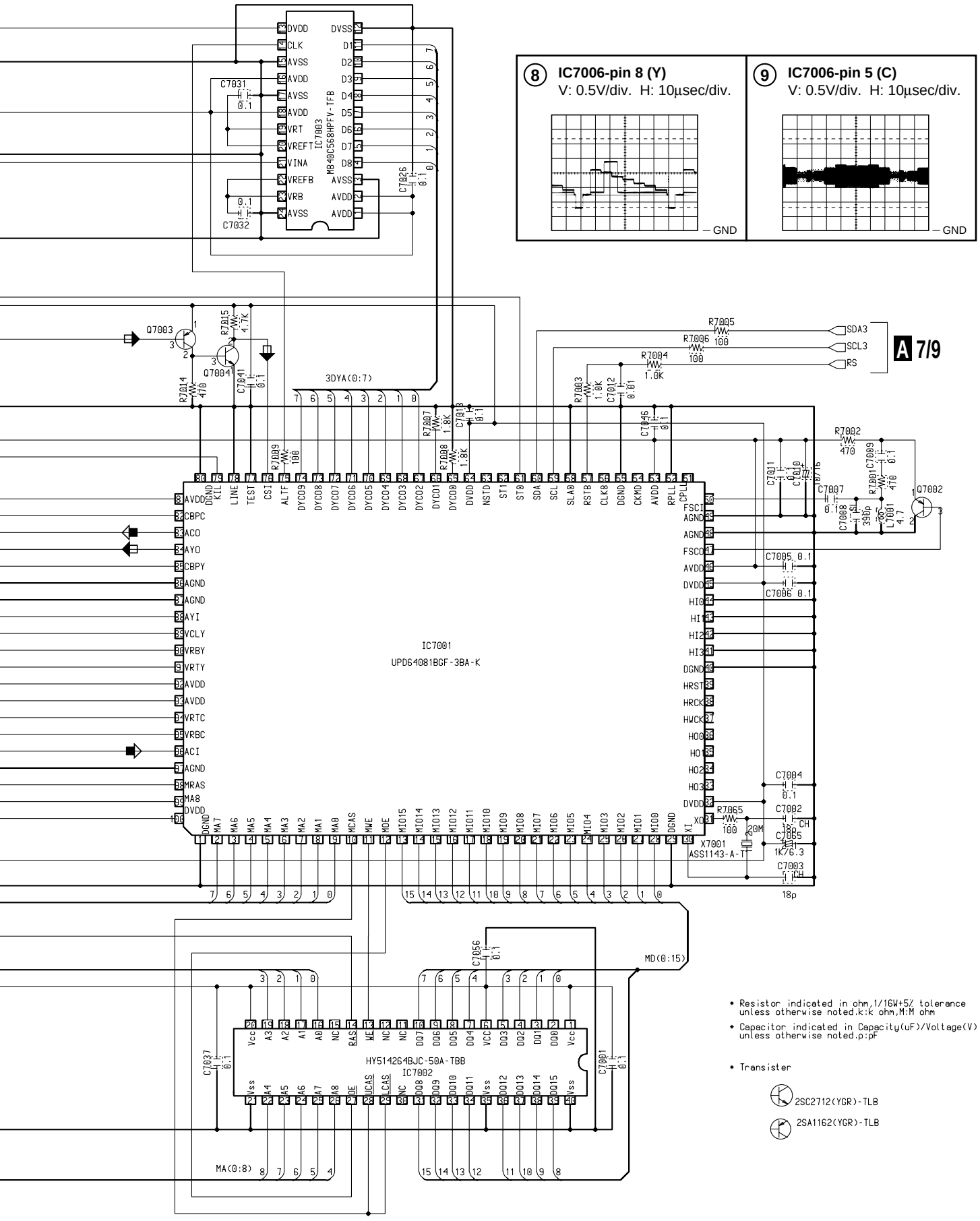
1	2	3	4	5
R2691	R2692	R2693	R2694	R2695
6	7	8	9	0
R2696	R2697	R2698	R2699	R2700

R2688 ELITE R2689 REGULAR

: C SIGNAL ROUTE
: Y SIGNAL ROUTE

3.6 SIGNAL ASSY (4/9)

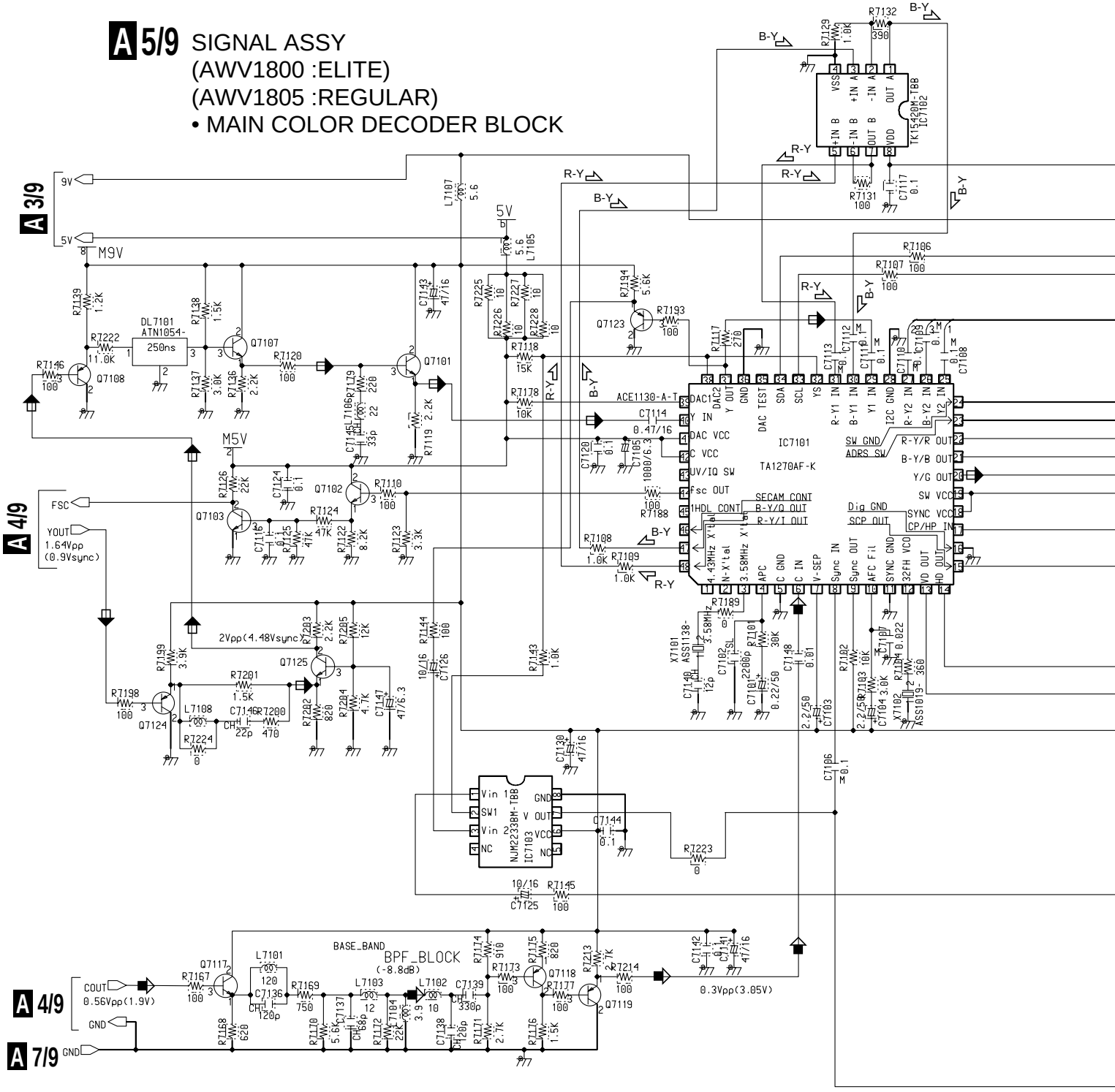




- Resistor indicated in ohm,1/16W±5% tolerance unless otherwise noted.k:k ohm,M:M ohm
- Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF
- Transister

3.7 SIGNAL ASSY (5/9)

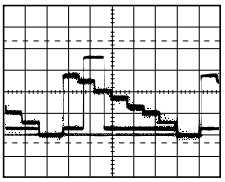
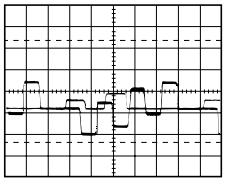
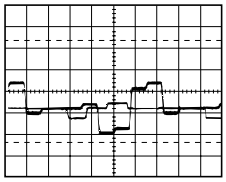
A 5/9 SIGNAL ASSY
(AWV1800 :ELITE)
(AWV1805 :REGULAR)
• MAIN COLOR DECODER BLOCK

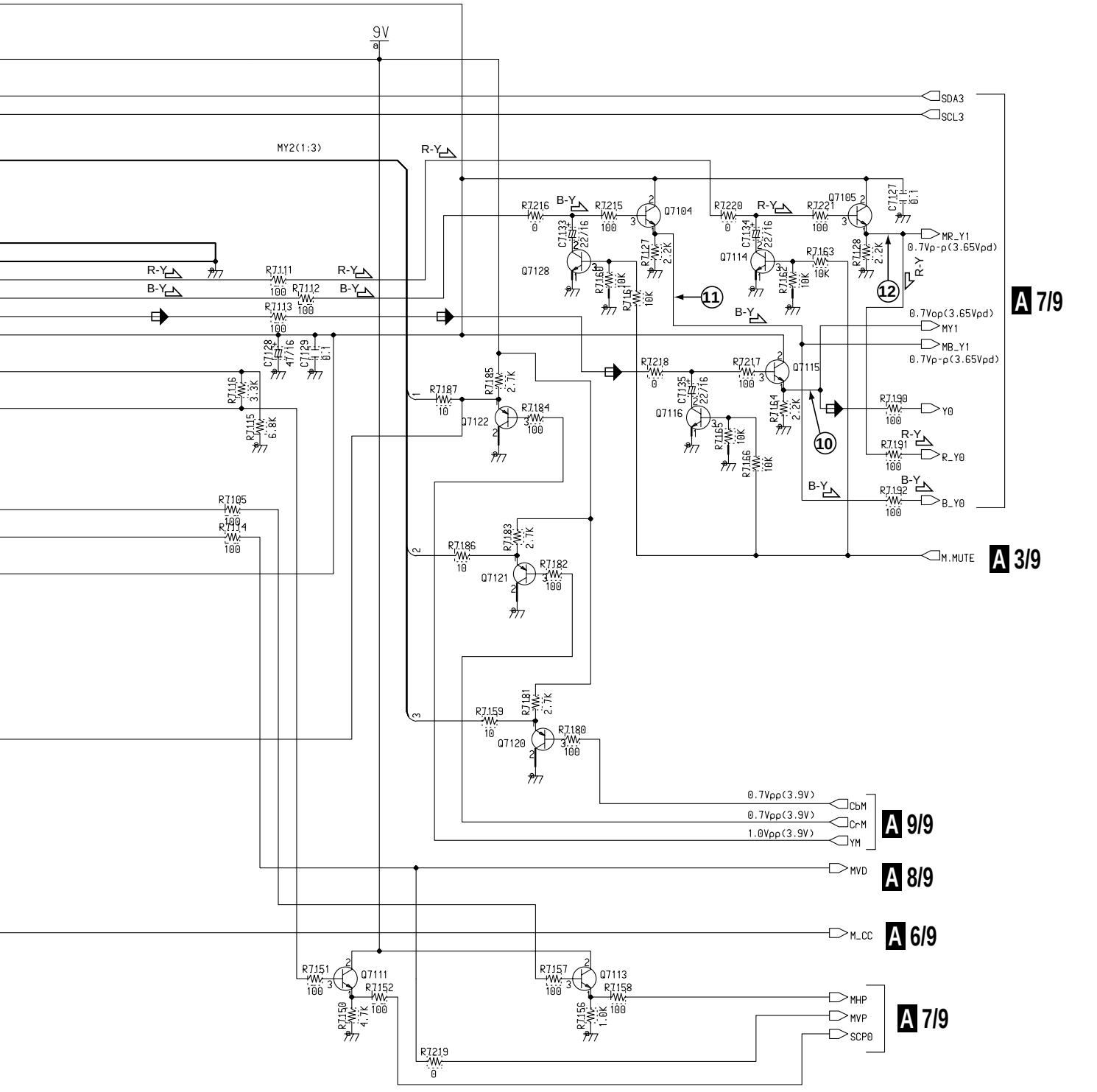


• Resistor indicated in ohm,1/16W±5% tolerance unless otherwise noted.k:k ohm,M:M ohm
• Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF

• Transister
2SC2712(YGR)-TLB
2SA1162(YGR)-TLB
1/16W

: C SIGNAL ROUTE
: Y SIGNAL ROUTE
R-Y : R-Y SIGNAL ROUTE
B-Y : B-Y SIGNAL ROUTE

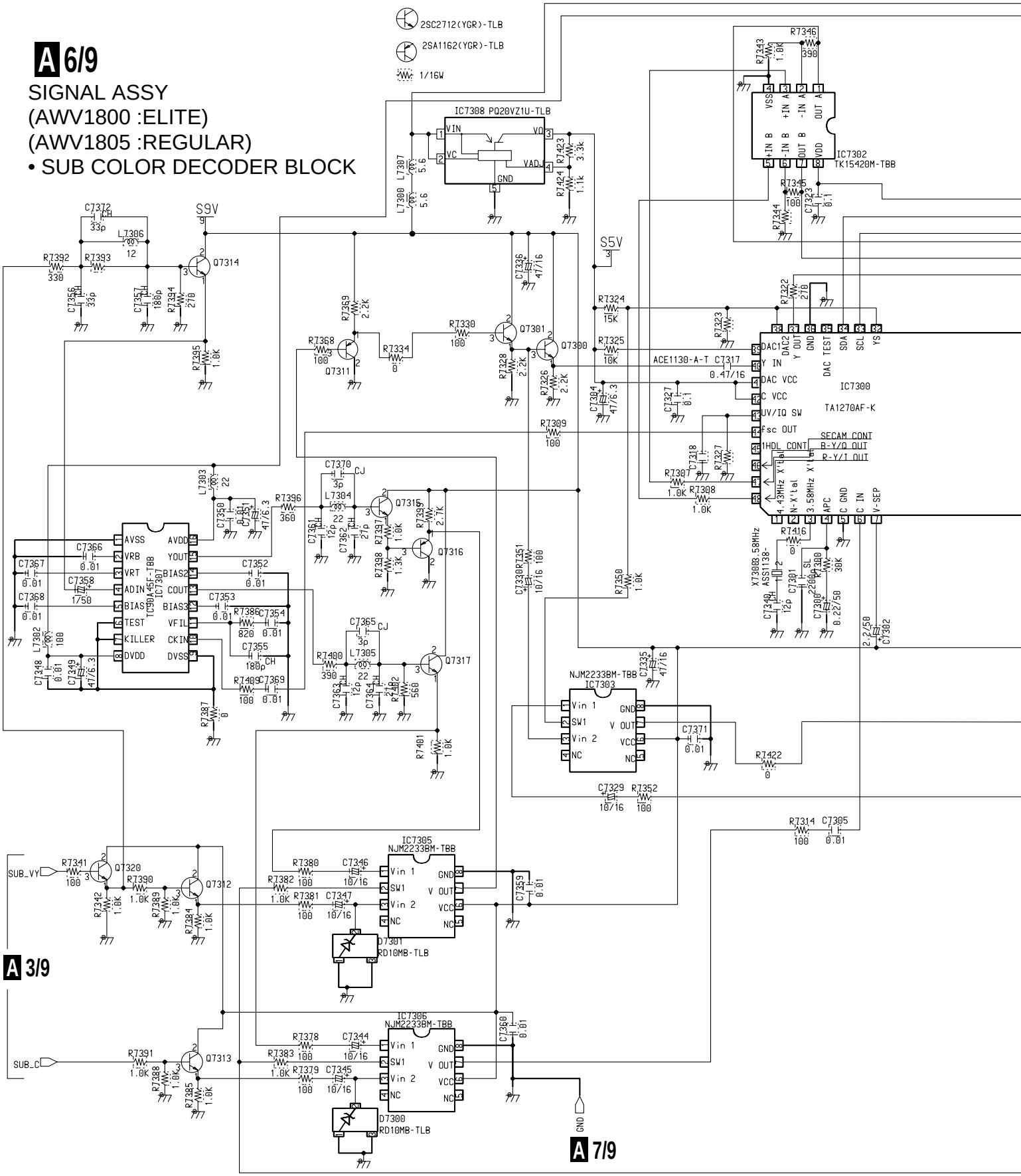
⑩ Q7115-Emitter (MY) (AC) V: 0.2V/div. H: 10µsec/div.	⑪ Q7104-Emitter (MB-Y) (AC) V: 0.2V/div. H: 10µsec/div.	⑫ Q7105-Emitter (MR-Y) (AC) V: 0.2V/div. H: 10µsec/div.
		



3.8 SIGNAL ASSY (6/9)

A 6/9

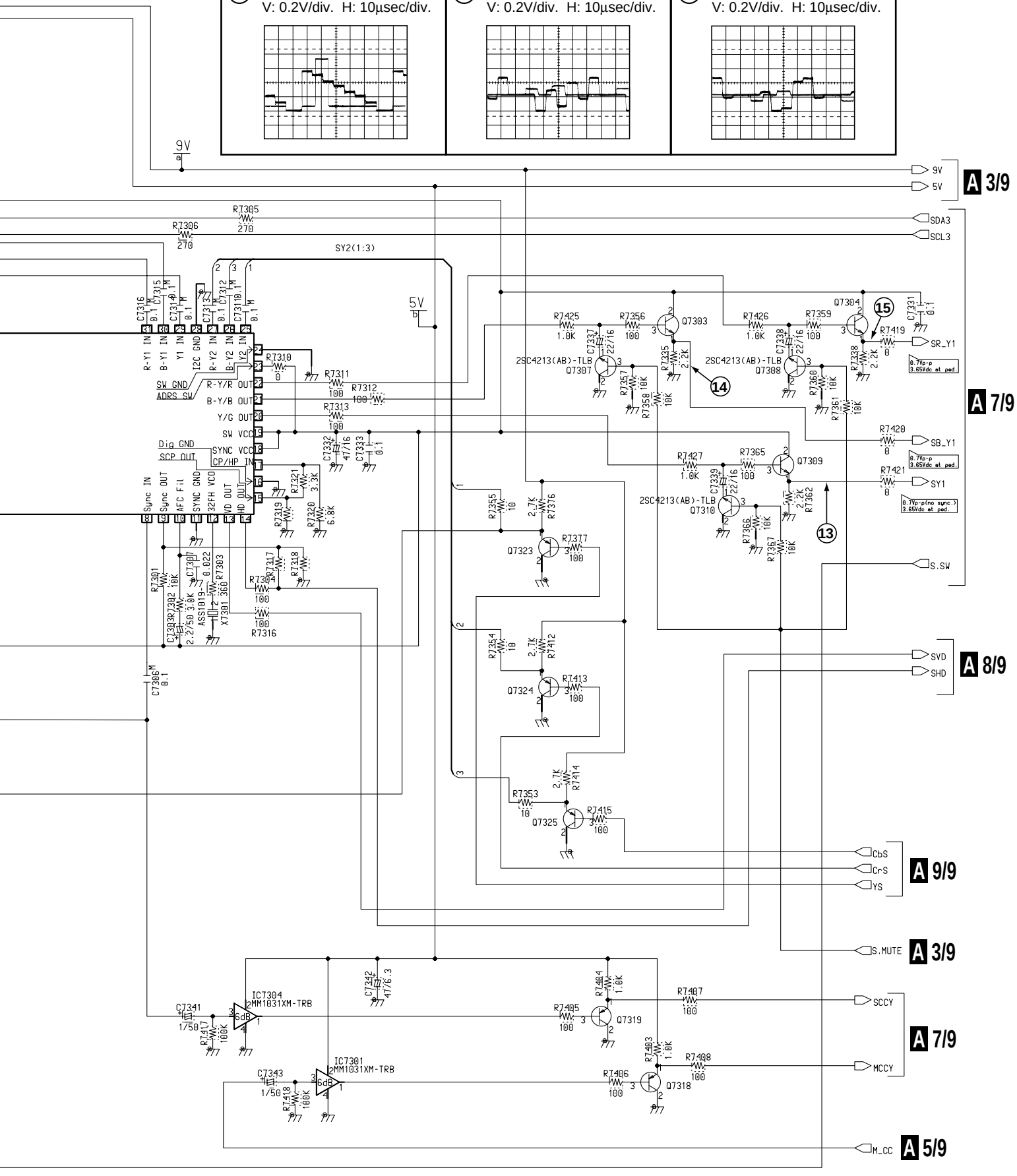
SIGNAL ASSY
(AWV1800 :ELITE)
(AWV1805 :REGULAR)
• SUB COLOR DECODER BLOCK



(13) Q7309-Emitter (SY) (AC)
V: 0.2V/div. H: 10µsec/div.

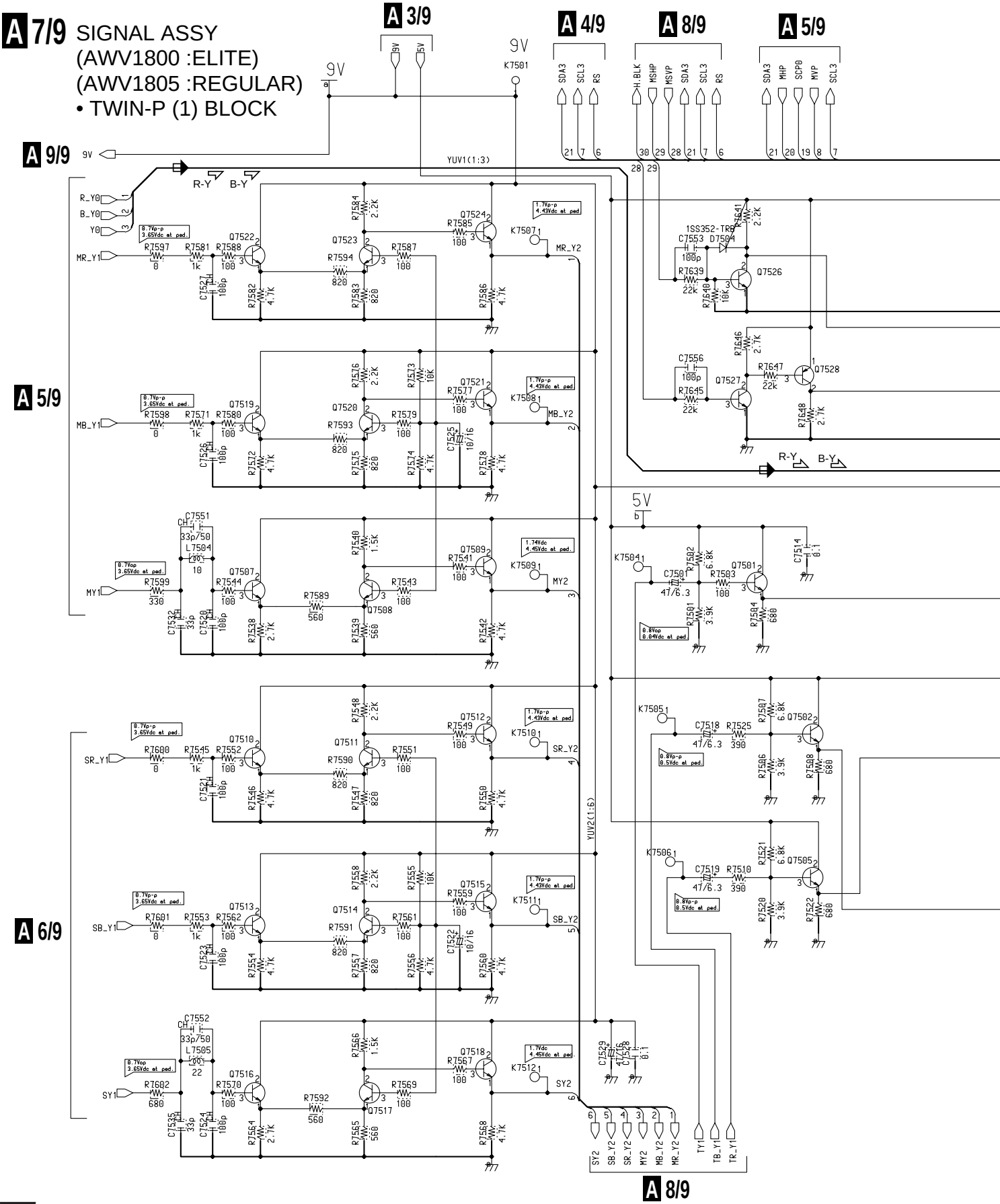
(14) Q7303-Emitter (SB-Y) (AC)
V: 0.2V/div. H: 10µsec/div.

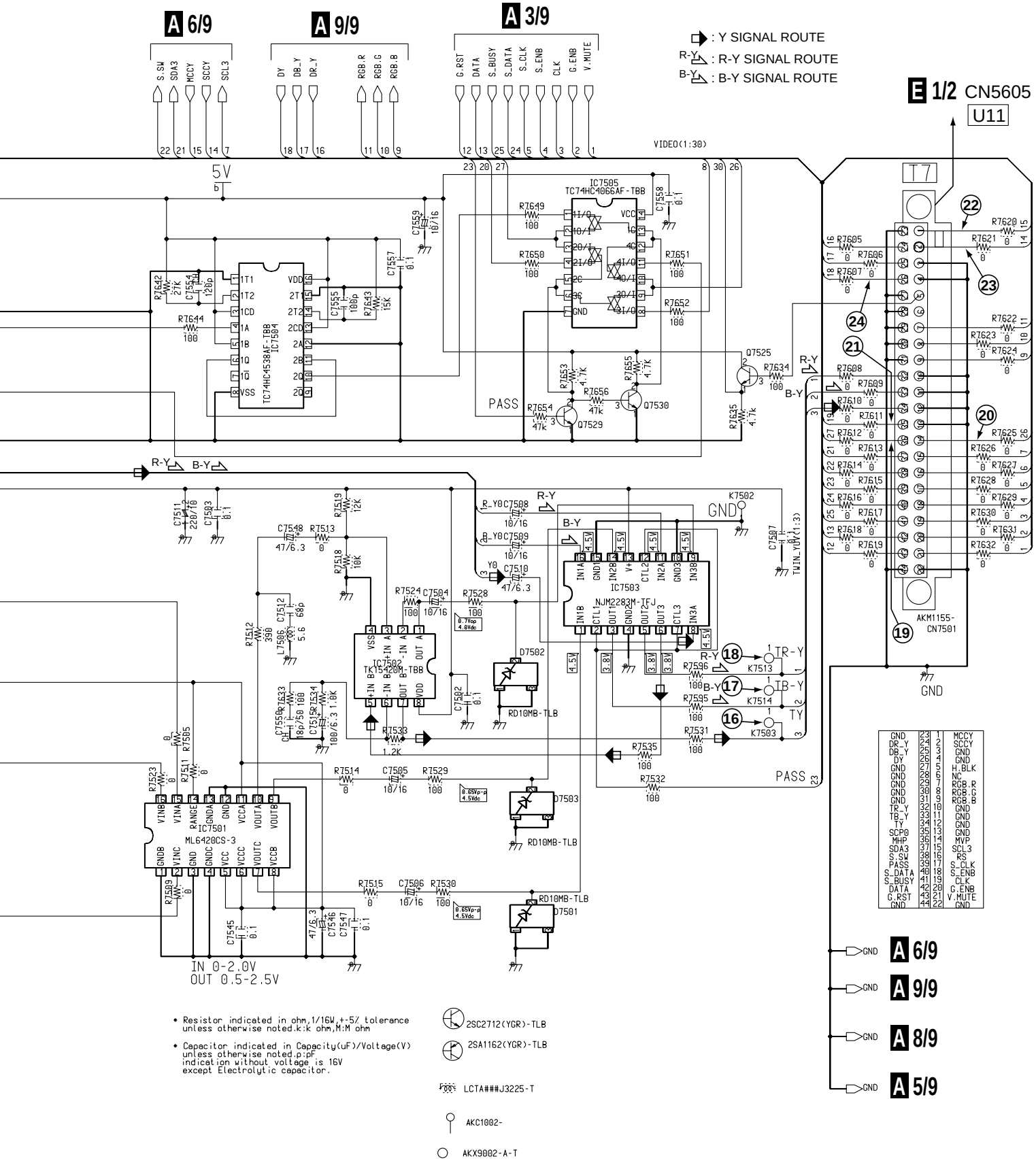
(15) Q7304-Emitter (SR-Y) (AC)
V: 0.2V/div. H: 10µsec/div.



3.9 SIGNAL ASSY (7/9)

A 7/9 SIGNAL ASSY
(AWV1800 :ELITE)
(AWV1805 :REGULAR)
• TWIN-P (1) BLOCK



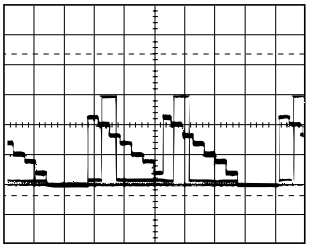


- Resistor indicated in ohm,1/16W,+-5% tolerance unless otherwise noted.k:k ohm,M:M ohm
- Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF indication without voltage is 16V except Electrolytic capacitor.

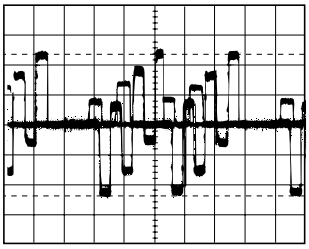
A 7/9 SIGNAL ASSY (7/9)

Input signal
Video signal : EIA full color-bar
Picture quality : Standard
Range :DC range (Unless otherwise noted)

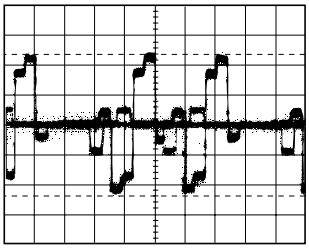
⑯ K7503 (TY) (AC)
V: 0.5V/div. H: 10µsec/div.



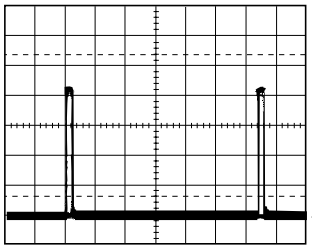
⑰ K7514 (TB-Y) (AC)
V: 0.1V/div. H: 10µsec/div.



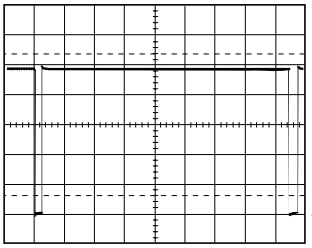
⑱ K7513 (TR-Y) (AC)
V: 0.1V/div. H: 10µsec/div.



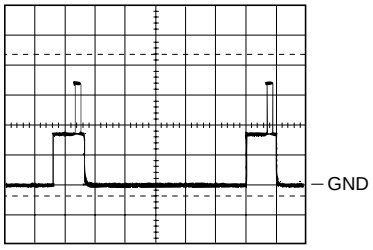
⑲ CN7501-pin 36 (MHP)
V: 1V/div. H: 10µsec/div.



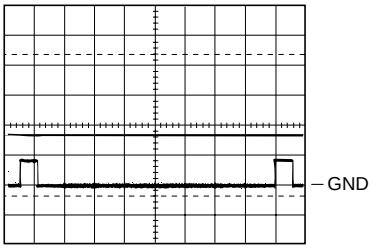
⑳ CN7501-pin 14 (MVP)
V: 1V/div. H: 2msec/div.



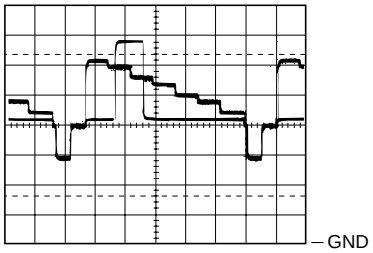
㉑-1 CN7501-pin 35 (SCP0)
V: 2V/div. H: 10µsec/div.



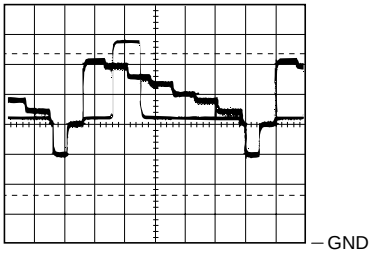
㉑-2 CN7501-pin 35 (SCP0)
V: 2V/div. H: 2msec/div.



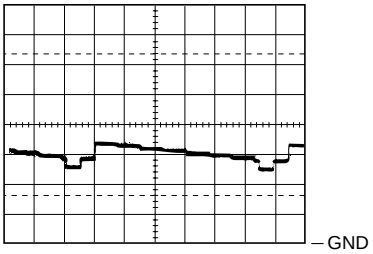
㉒ CN7501-pin 1 (MCCY)
V: 0.5V/div. H: 10µsec/div.



㉓ CN7501-pin 2 (SCCY)
V: 0.5V/div. H: 10µsec/div.



㉔ CN7501-pin 26 (DYOUT)
V: 1V/div. H: 10µsec/div.



A 7/9 SIGNAL ASSY (7/9)

IC7501 (ML6420CS-3)

Pin No.	Voltage (V)
1	0
2	1.16V at ped.
3	0
4	0
5	5
6	5
7	1.8V at ped.
8	5
9	1.7V at ped.
10	1.7V at ped.
11	5
12	0
13	0
14	5
15	1.04V at ped.
16	1.14V at ped

IC7502 (TK15420M)

Pin No.	Voltage (V)
1	3.8V at ped.
2	3.8V at ped.
3	3.8V at ped.
4	0
5	3.5V at ped.
6	3.5V at ped.
7	3.5V at ped.
8	9

IC7503 (NJM2283M

Pin No.	Voltage (V)
1	4.4
2	2.8 (sprit-screens) 0.1 (single-screen)
3	3.7
4	0
5	3.7
6	3.5
7	2.8 (sprit-screens) 0.1 (single-screen)
8	4.2
9	4.2
10	0
11	4.4
12	2.8 (sprit-screens) 0.1 (single-screen)
13	8.8
14	4.4
15	0
16	4.4

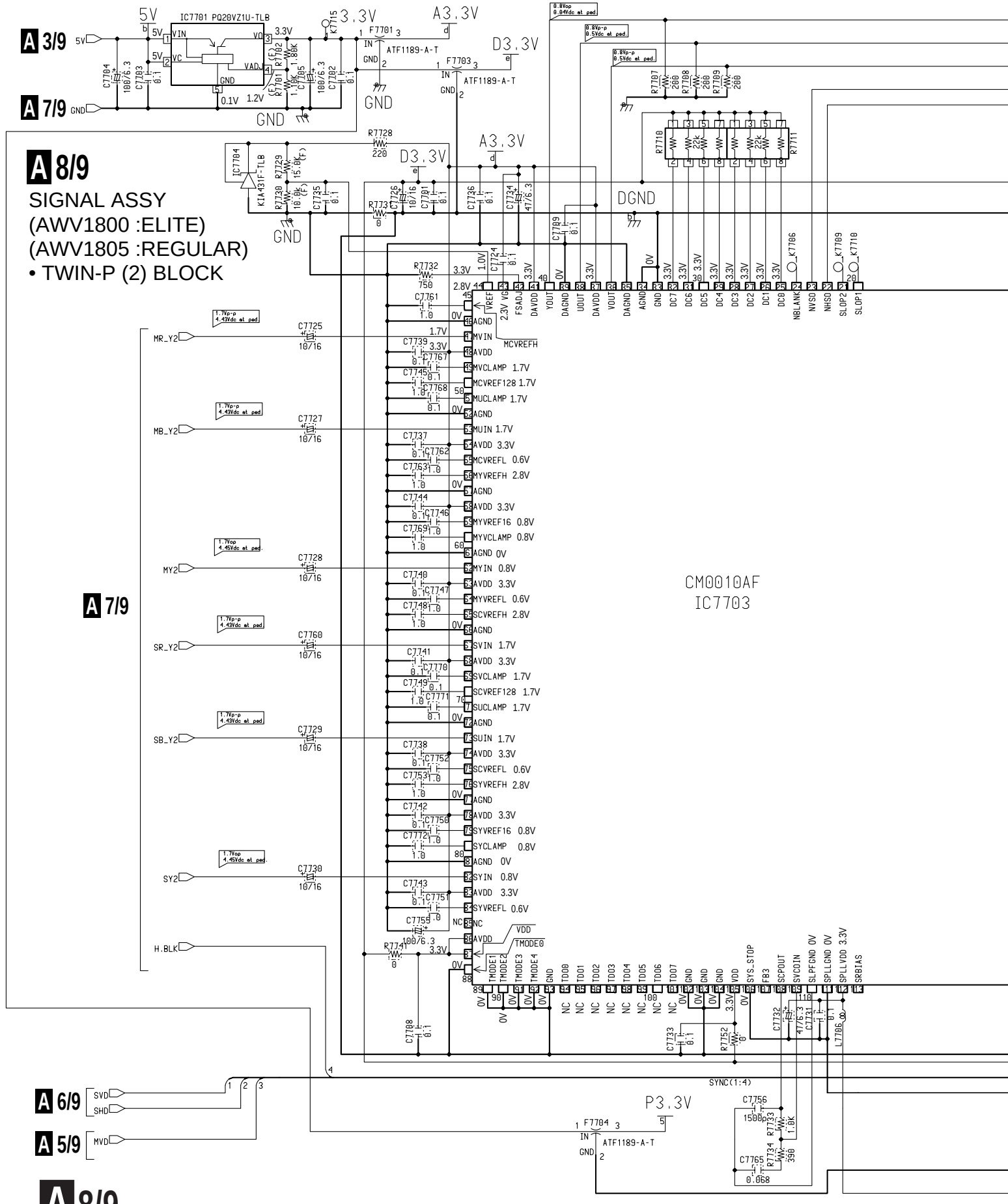
IC7504 (TC74HC4538AF)

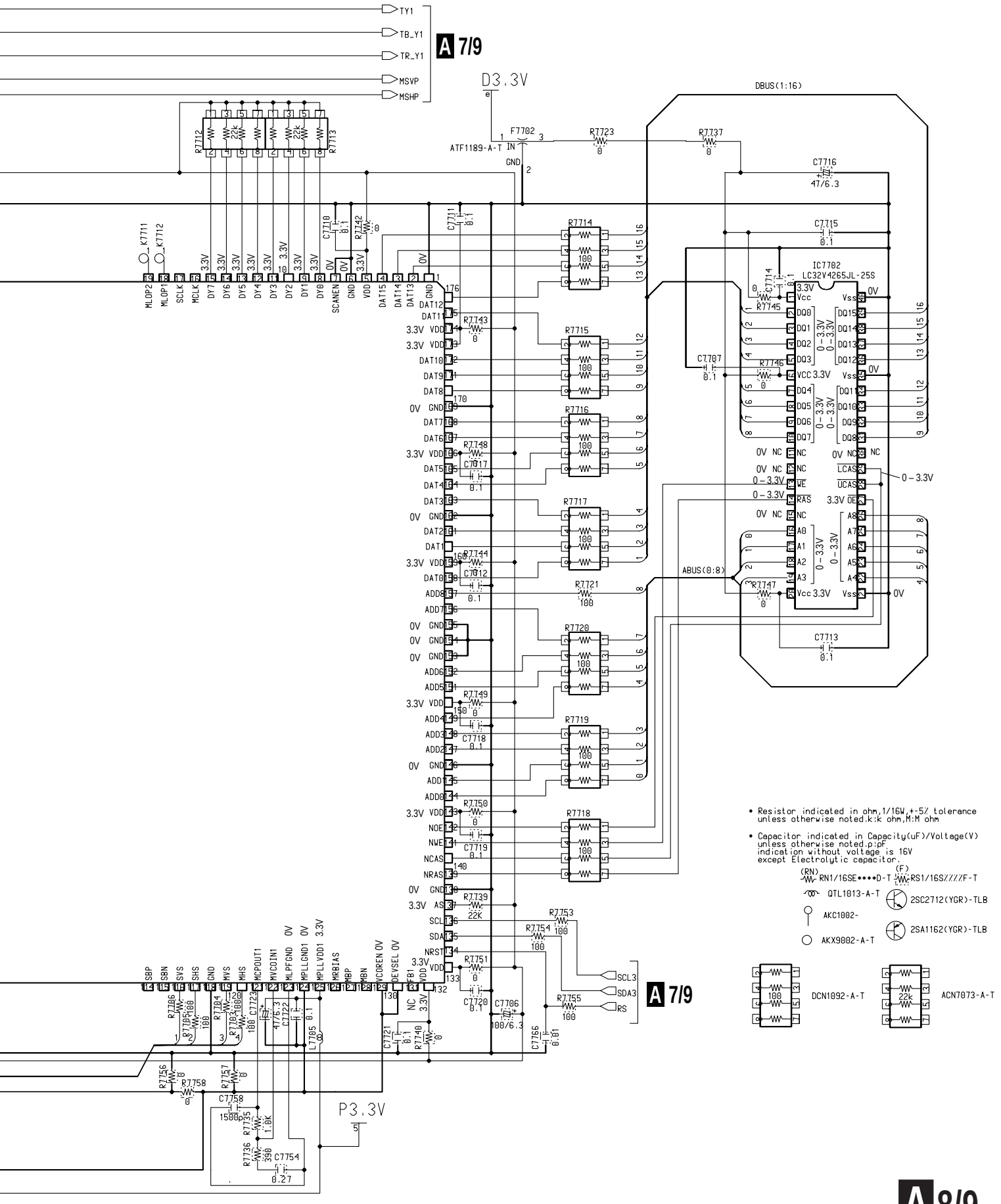
Pin No.	Voltage (V)
1	0
2	5
3	5
4	0 – 5
5	5
6	0 – 5
7	0 – 5
8	0
9	0 – 5
10	0 – 5
11	0 – 5
12	0
13	5
14	5
15	0
16	5

IC7505 (TC74HC4066AF)

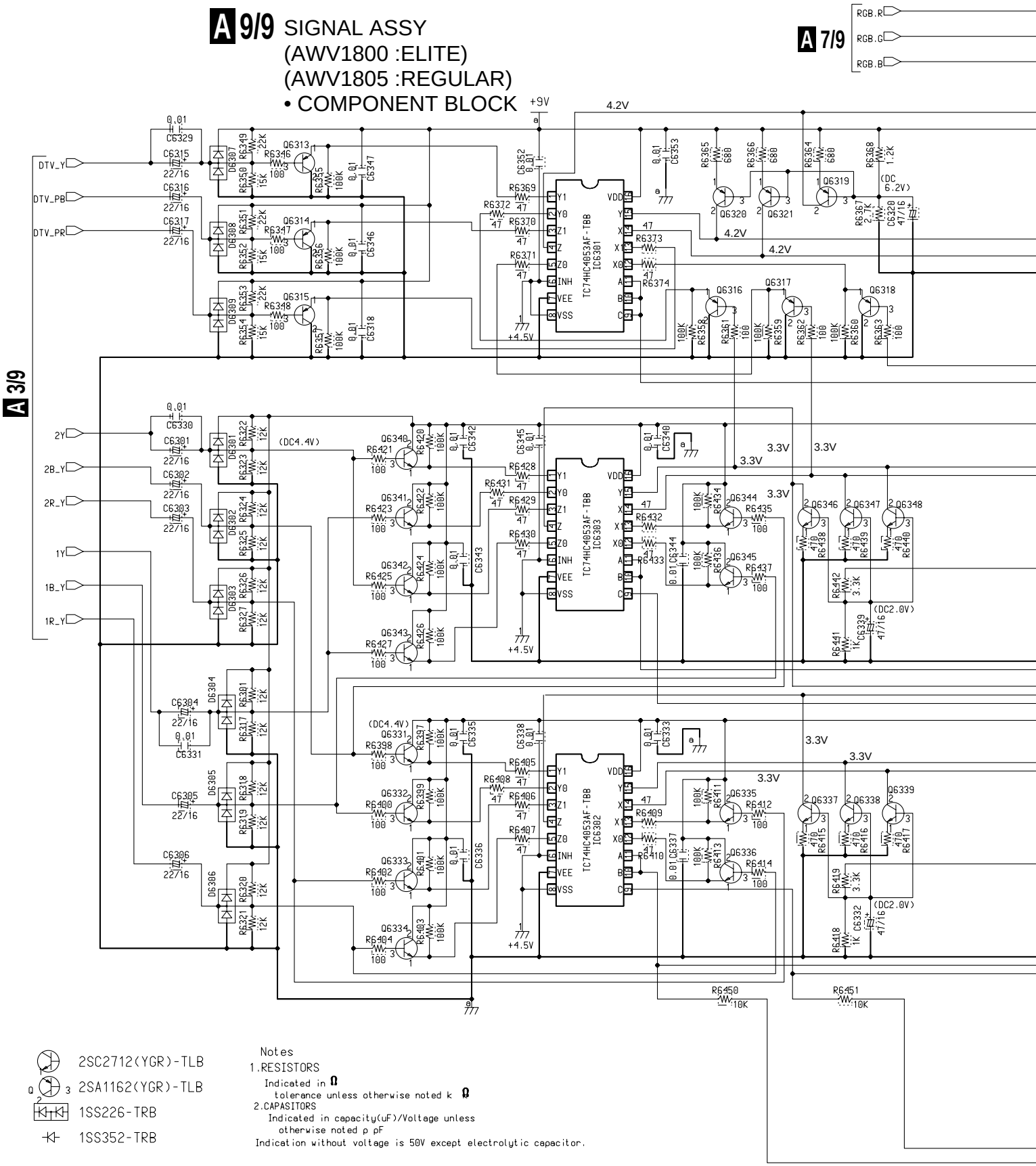
Pin No.	Voltage (V)
1	0 – 5
2	0 – 5
3	0 – 5
4	0 – 5
5	0 (sprit-screens) 4.6 (single-screen)
6	0 (sprit-screens) 4.6 (single-screen)
7	0
8	0 – 5
9	0 – 5
10	0 – 5
11	0 – 5
12	5 (sprit-screens) 0 (single-screen)
13	5 (sprit-screens) 0 (single-screen)
14	5

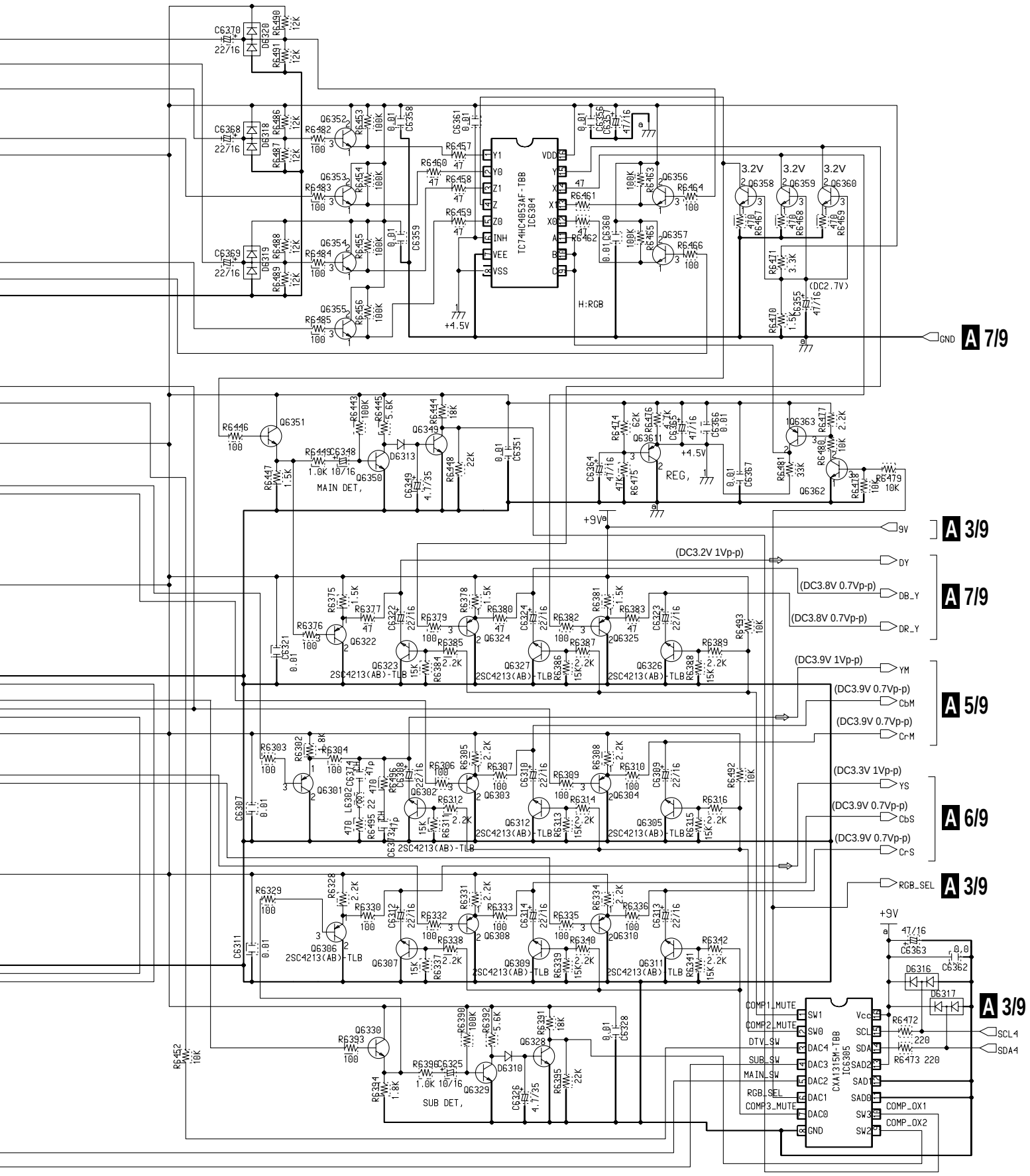
3.10 SIGNAL ASSY (8/9)



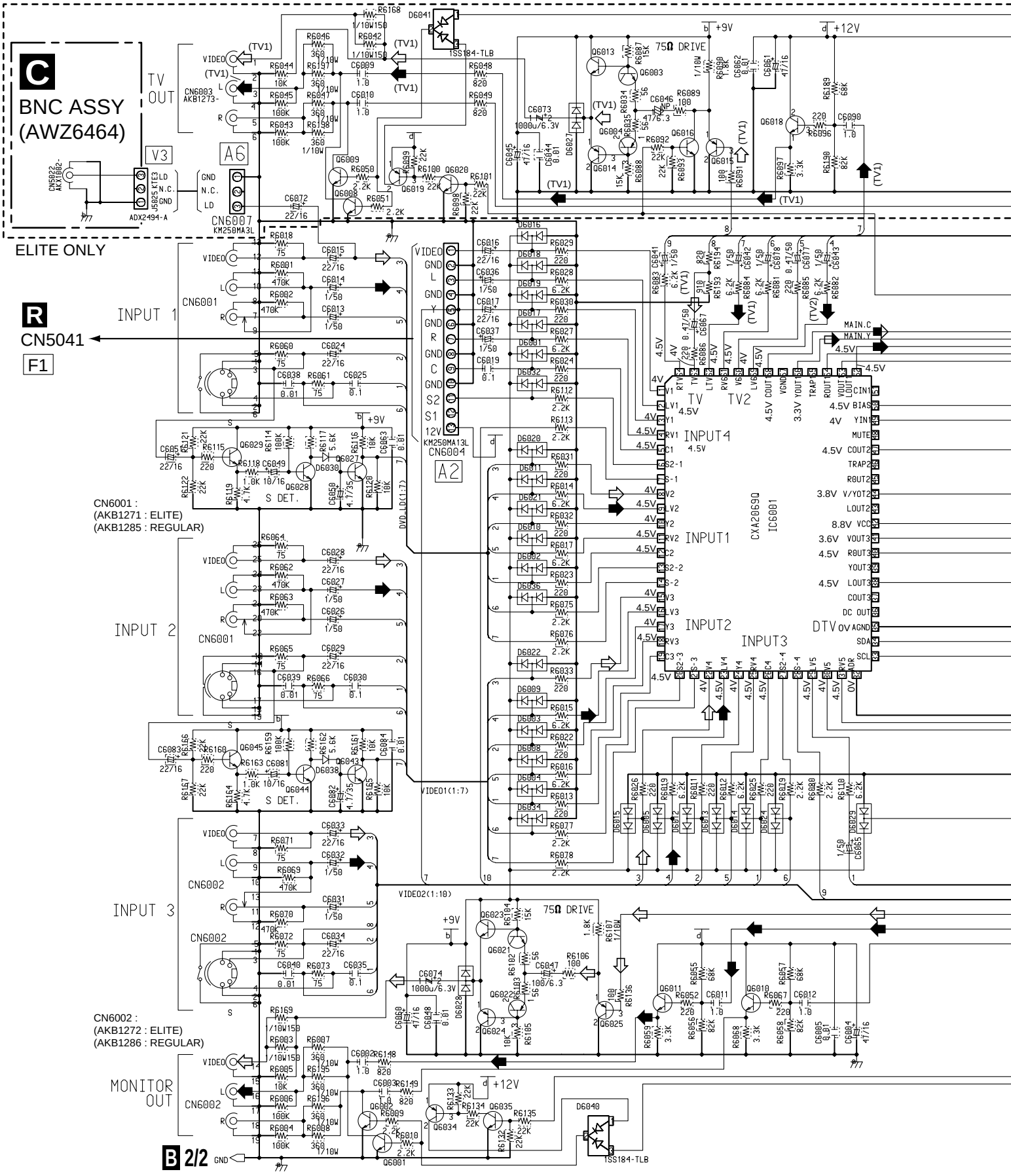

TY1
TB_Y1
TR_Y1
MSVP
MSHP
A 7/9
D3.3V
DBUS(1:16)
ATF1189-A-T
IC7702
LC32V4265JL-25S
ABUS(0:8)
SCL3
SDA3
RS
A 7/9
P3.3V
• Resistor indicated in ohm,1/16W,+-5% tolerance unless otherwise noted.k:k ohm,M:M ohm
• Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF indication without voltage is 16V except Electrolytic capacitor.
QTL1013-A-T
AKC1002-
AKX9002-A-T
2SC2712(YGR)-TLB
2SA1162(YGR)-TLB
DCN1092-A-T
ACN7073-A-T

3.11 SIGNAL ASSY (9/9)



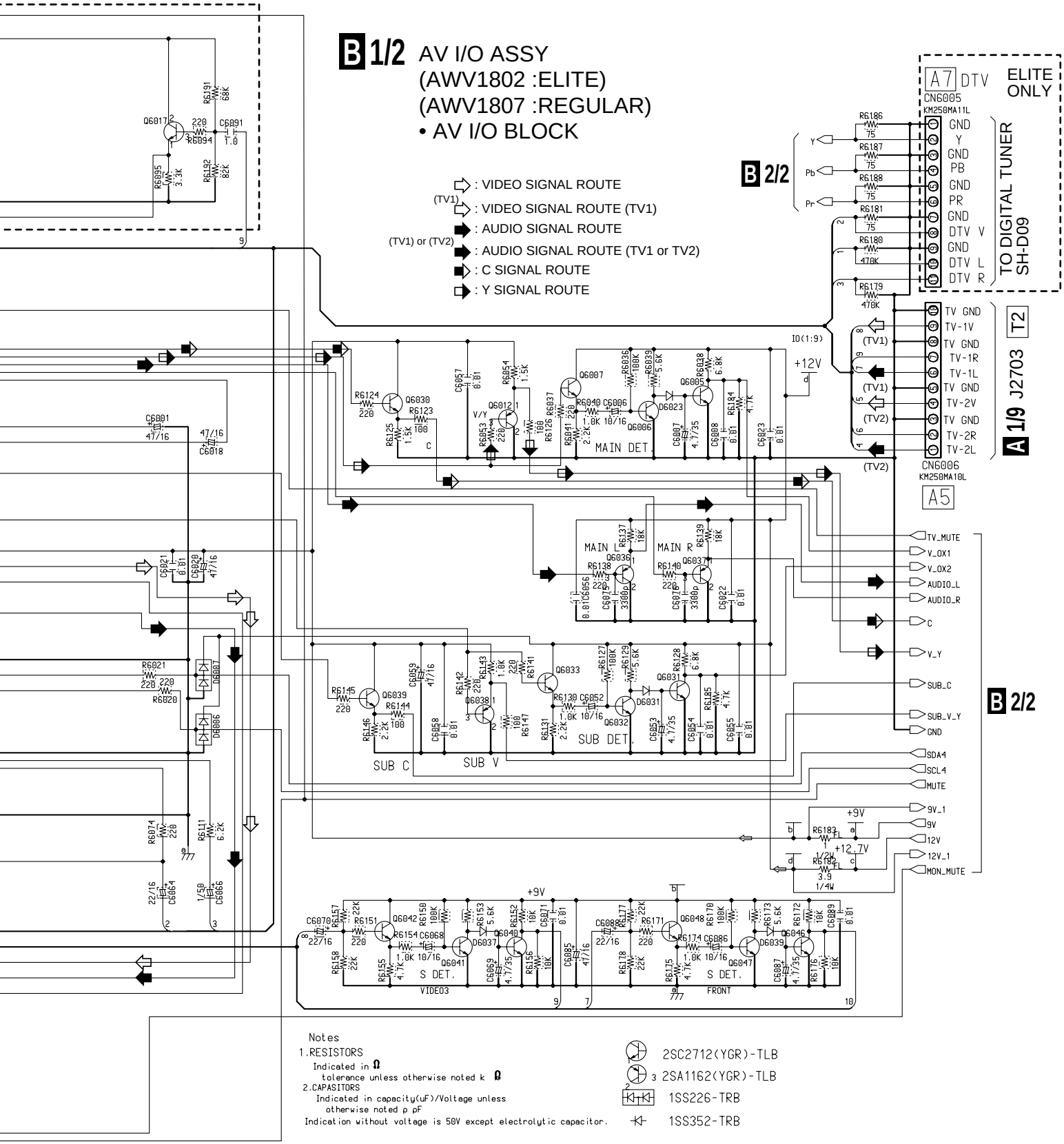

A 7/9
B
A 3/9
A 7/9
A 5/9
C
A 6/9
A 3/9
D
A 9/9
GND
9V
DY
DB_Y
DR_Y
YM
CbM
CrM
YS
CbS
CrS
RGB_SEL
SCL4
SDA4
MAIN DET,
SUB DET,
REG,
H:RGB
TC74HC4053AF-TBB
CXA1315M-TBB
2SC4213(AB)-TLB
(DC3.2V 1Vp-p)
(DC3.8V 0.7Vp-p)
(DC3.9V 1Vp-p)
(DC3.9V 0.7Vp-p)
(DC3.3V 1Vp-p)
(DC2.7V)
3.2V
+4.5V
+9V

3.12 AV I/O (1/2) and BNC ASSYS



B 1/2 AV I/O ASSY
(AWV1802 :ELITE)
(AWV1807 :REGULAR)
• AV I/O BLOCK

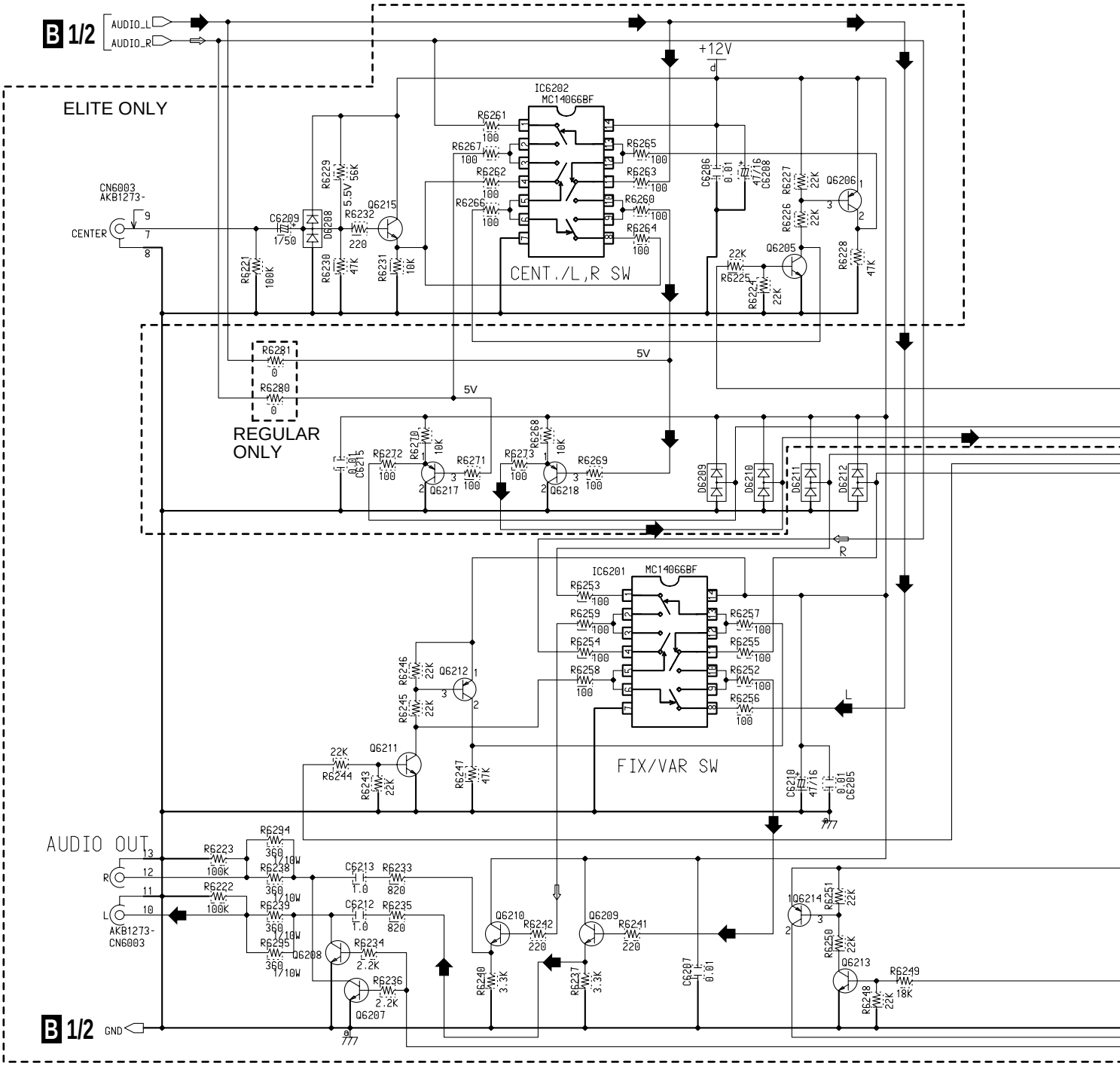
: VIDEO SIGNAL ROUTE
(TV1) : VIDEO SIGNAL ROUTE (TV1)
: AUDIO SIGNAL ROUTE
(TV1) or (TV2) : AUDIO SIGNAL ROUTE (TV1 or TV2)
: C SIGNAL ROUTE
: Y SIGNAL ROUTE



Notes
1.RESISTORS
Indicated in Ω
tolerance unless otherwise noted k Ω
2.CAPASITORS
Indicated in capacity(uF)/Voltage unless otherwise noted p pF
Indication without voltage is 50V except electrolytic capacitor.

2SC2712(YGR)-TLB
3 2SA1162(YGR)-TLB
2 1SS226-TRB
1SS352-TRB

3.13 AV I/O (2/2) and SR ASSYS

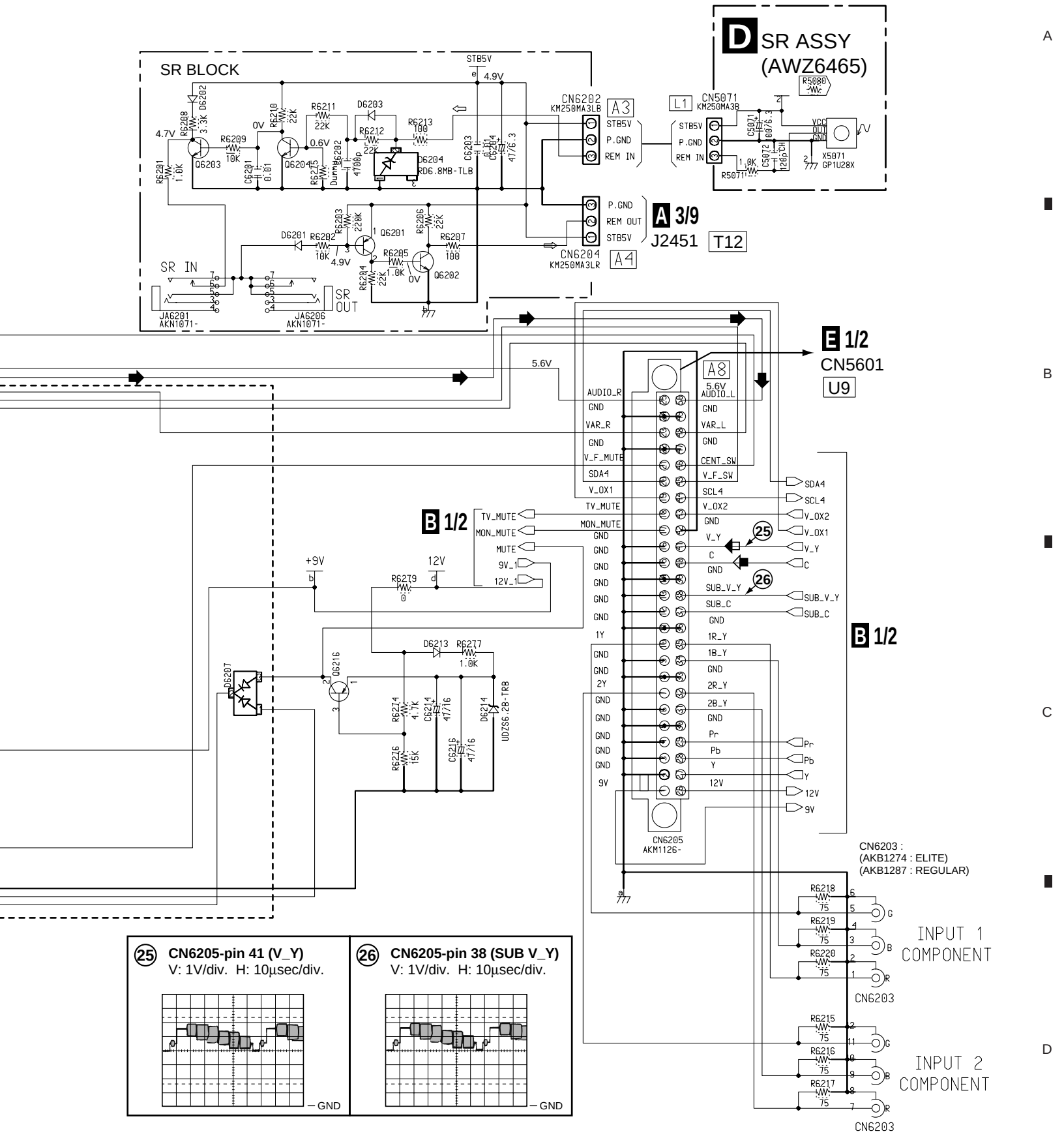


B 2/2 AV I/O ASSY
(AWV1802 :ELITE)
(AWV1807 :REGULAR)
• AV I/O and SR BLOCKS

Notes
1.RESISTORS
Indicated in Ω
tolerance unless otherwise noted k Ω
2.CAPASITORS
Indicated in capacity(uF)/Voltage unless
otherwise noted p pF
Indication without voltage is 50V except electrolytic capacitor.

2SC2712(YGR)-TLB
2SA1162(YGR)-TLB
1SS352-TRB

: AUDIO SIGNAL ROUTE
: C SIGNAL ROUTE
: Y SIGNAL ROUTE

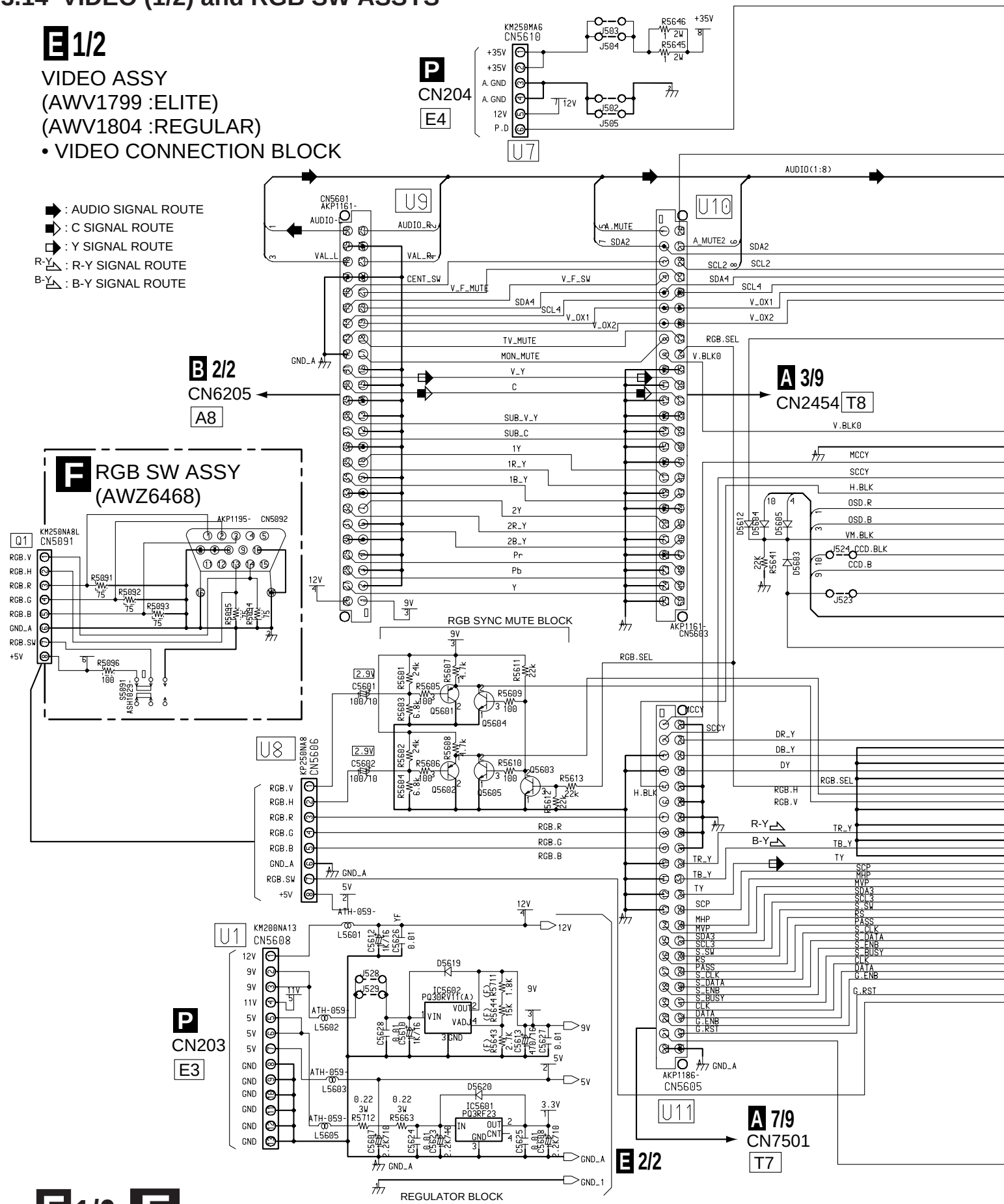

D SR ASSY (AWZ6465)
SR BLOCK
CN6202 KM250MA3LB
CN5071 KM250MA3B
CN6204 KM250MA3LR
A 3/9 J2451 T12
E 1/2 CN5601 U9
B 1/2
CN6205 AKM1126-
CN6203 : (AKB1274 : ELITE) (AKB1287 : REGULAR)
INPUT 1 COMPONENT
INPUT 2 COMPONENT
SR IN
SR OUT
JA6201 AKN1071-
JA6206 AKN1071-
25 CN6205-pin 41 (V_Y) V: 1V/div. H: 10µsec/div.
26 CN6205-pin 38 (SUB V_Y) V: 1V/div. H: 10µsec/div.
GND

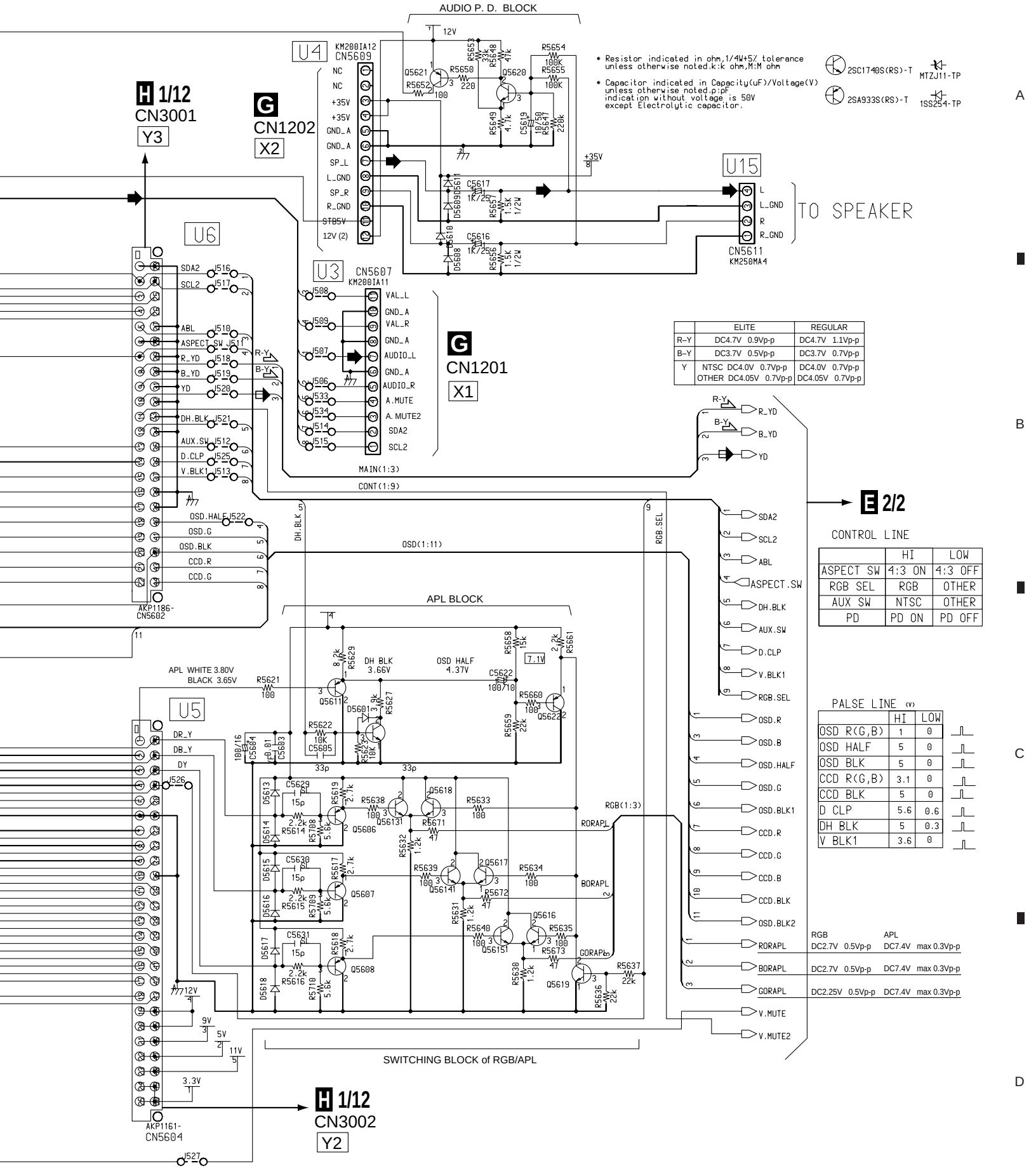
3.14 VIDEO (1/2) and RGB SW ASSYS

E 1/2

VIDEO ASSY
(AWV1799 :ELITE)
(AWV1804 :REGULAR)
• VIDEO CONNECTION BLOCK

: AUDIO SIGNAL ROUTE
: C SIGNAL ROUTE
: Y SIGNAL ROUTE
R-Y : R-Y SIGNAL ROUTE
B-Y : B-Y SIGNAL ROUTE





	ELITE	REGULAR
R–Y	DC4.7V 0.9Vp-p	DC4.7V 1.1Vp-p
B–Y	DC3.7V 0.5Vp-p	DC3.7V 0.7Vp-p
Y	NTSC DC4.0V 0.7Vp-p OTHER DC4.05V 0.7Vp-p	DC4.0V 0.7Vp-p DC4.05V 0.7Vp-p

CONTROL LINE

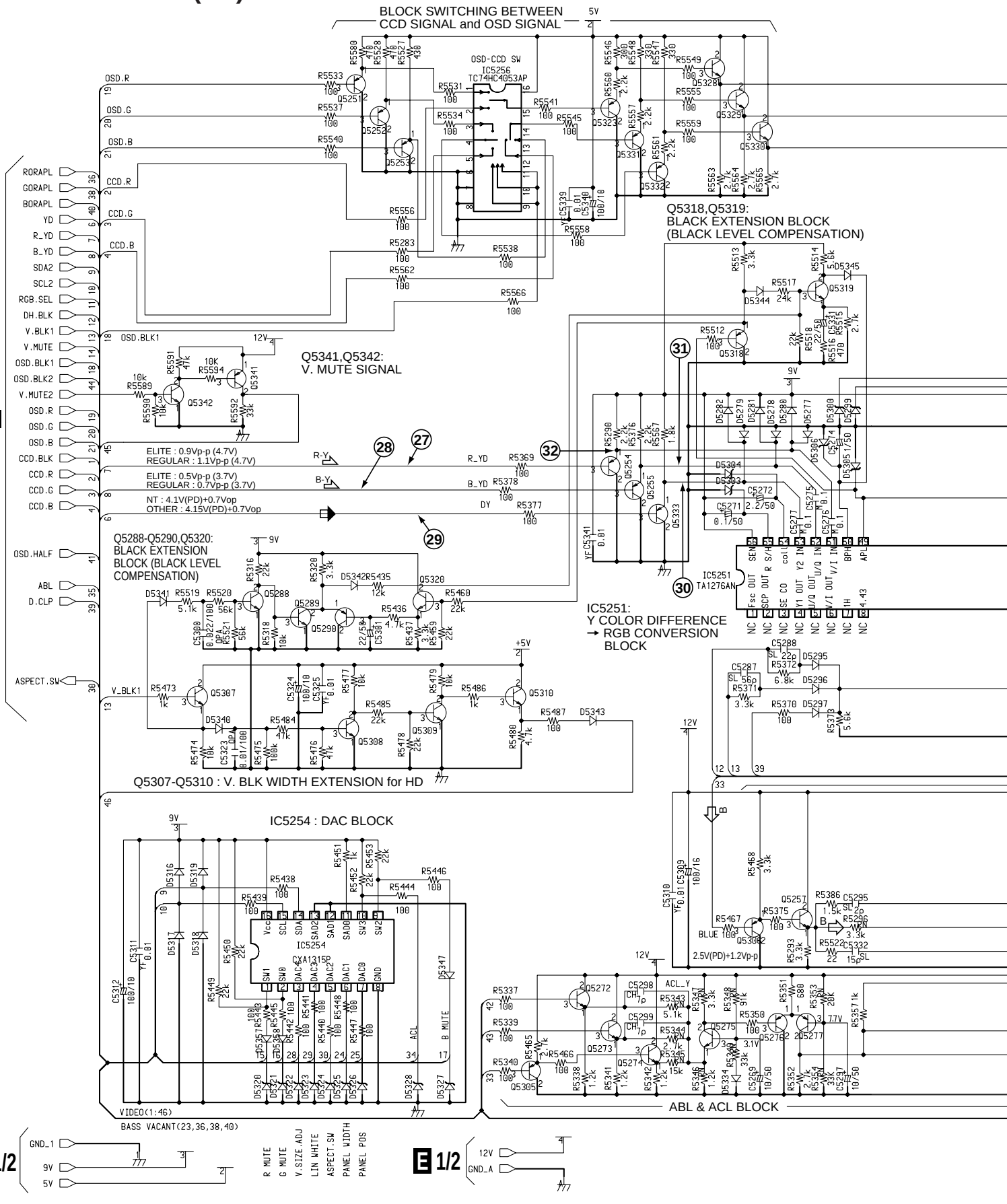
	HI	LOW
ASPECT SW	4:3 ON	4:3 OFF
RGB SEL	RGB	OTHER
AUX SW	NTSC	OTHER
PD	PD ON	PD OFF

PALSE LINE (V)

	HI	LOW
OSD R(G,B)	1	0
OSD HALF	5	0
OSD BLK	5	0
CCD R(G,B)	3.1	0
CCD BLK	5	0
D CLP	5.6	0.6
DH BLK	5	0.3
V BLK1	3.6	0

	RGB	APL
RORAPL	DC2.7V 0.5Vp-p	DC7.4V max 0.3Vp-p
BORAPL	DC2.7V 0.5Vp-p	DC7.4V max 0.3Vp-p
GORAPL	DC2.25V 0.5Vp-p	DC7.4V max 0.3Vp-p

3.15 VIDEO ASSY (2/2)



: Y SIGNAL ROUTE
R-Y : R-Y SIGNAL ROUTE
B-Y : B-Y SIGNAL ROUTE
R, G or B : R, G or B SIGNAL ROUTE

E 2/2 VIDEO ASSY
(AWV1799 :ELITE)
(AWV1804 :REGULAR)
• VIDEO BLOCK

R5268
13k : ELITE
12k : REGULAR

IC5252.Q5301 :
PANEL BLK GENERATION
BLOCK for SCREEN SIZE 4:3

VR5251,VR5252: For 4:3 PANEL WIDTH ADJ

LINEAR WHITE BLOCK

TO AUTO CONVER

P CN212 E12
M CN5101 M1
N CN5151 N1
O CN5201 P1
I 1/2 CN1655 H7
A 3/9 CN2455 T3

- Resistor indicated in ohm,1/4W+5% tolerance unless otherwise noted.k:k ohm,M:M ohm
- Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF indication without voltage is 50V except Electrolytic capacitor.

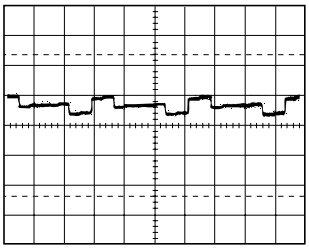
2SC1740S(RS)-T MTZJ11-TP
2SA933S(RS)-T 1SS254-TP

This sheet name is 11ku-video3

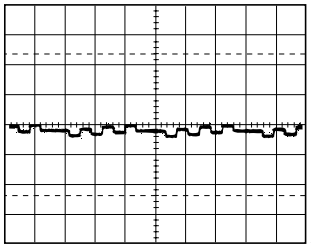
E 2/2 VIDEO ASSY (2/2)

Input signal
Video signal : EIA full color-bar
Picture quality : Standard
Range :DC range (Unless otherwise noted)

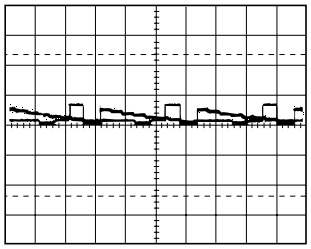
(27) Foot of R5369 (Sharpness output R-Y)
V: 1V/div. H: 10µsec/div.



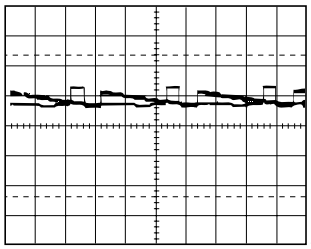
(28) Foot of R5378 (Sharpness output B-Y)
V: 1V/div. H: 10µsec/div.



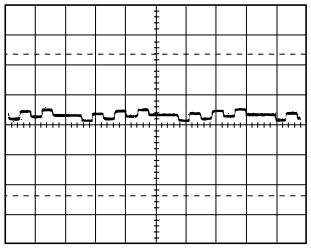
(29) Foot of R5377 (Sharpness output Y)
V: 1V/div. H: 10µsec/div.



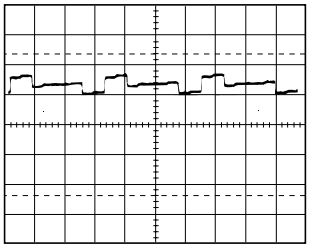
(30) Q5333 Emitter (Y input)
V: 1V/div. H: 10µsec/div.



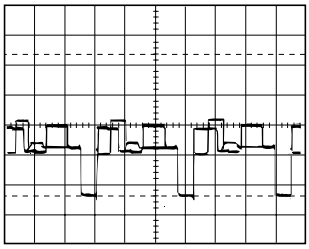
(31) Q5255 Emitter (B-Y input)
V: 1V/div. H: 10µsec/div.



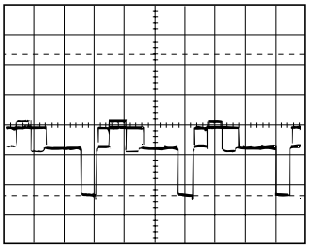
(32) Q5254 Emitter (R-Y input)
V: 1V/div. H: 10µsec/div.



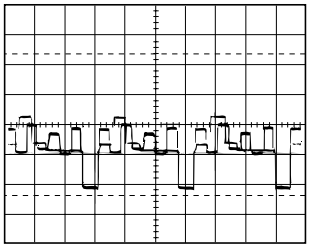
(33) P5252 (R OUT)
V: 1V/div. H: 10µsec/div.



(34) P5253 (G OUT)
V: 1V/div. H: 10µsec/div.



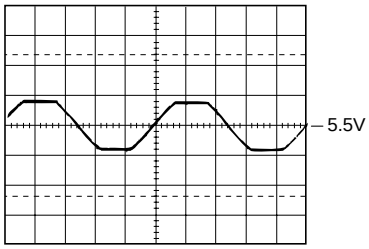
(35) P5254 (B OUT)
V: 1V/div. H: 10µsec/div.



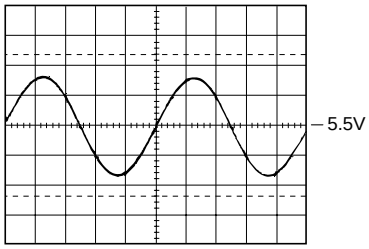
G AUDIO ASSY

Input signal
Video signal : EIA full color-bar , Picture quality : Standard
f = 1kHz , Vol. : MAX (Unless otherwise noted) Vin = 0.4rms
Range :DC range (Unless otherwise noted)

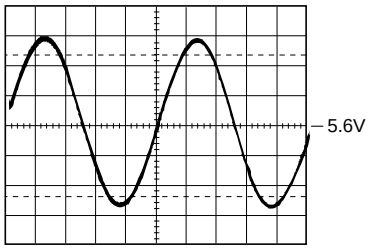
36-1 CN1201-pin 11
V: 5V/div. H: 0.2msec/div.



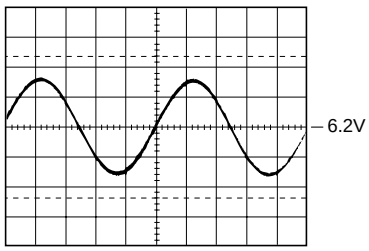
36-2 CN1201-pin 11
V: 2V/div. H: 0.2msec/div.
• Vol : 40



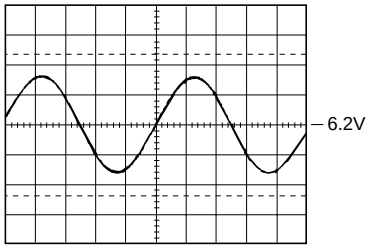
37 CN1201-pin 7
V: 0.2V/div. H: 0.2msec/div.



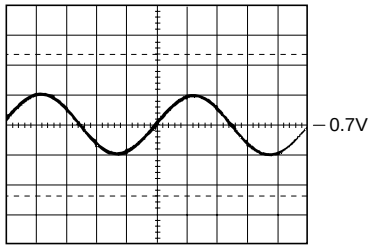
38 IC1201-pin 26
V: 0.2V/div. H: 0.2msec/div.



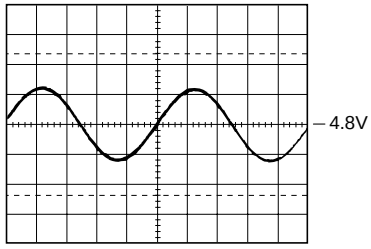
39 IC1201-pin 14, 17
V: 0.2V/div. H: 0.2msec/div.



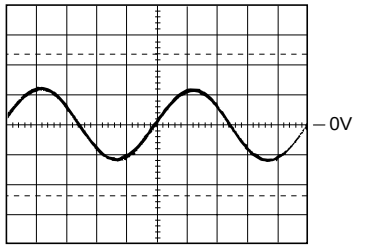
40 C1229 + (plus) side
V: 0.2V/div. H: 0.2msec/div.



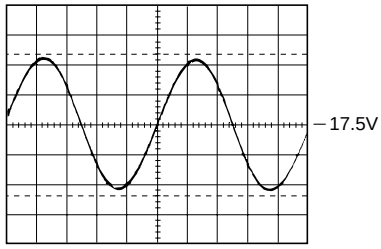
41 Q1201 Base
V: 0.2V/div. H: 0.2msec/div.



42 C1241 – (minus) side
V: 0.2V/div. H: 0.2msec/div.



43 CN1202-pin 7
V: 5V/div. H: 0.2msec/div.



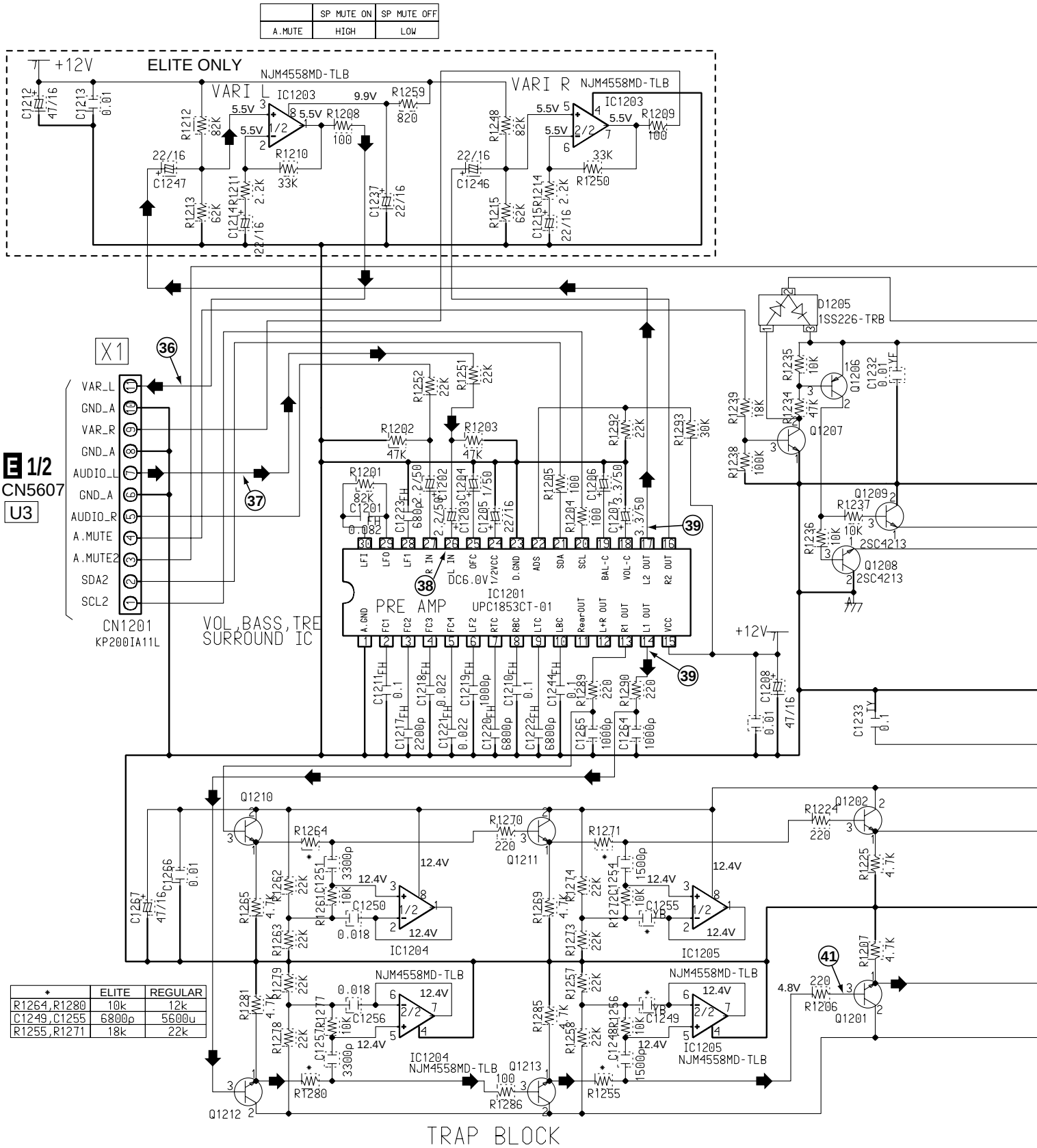
IC1201 (UPC1853)

Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	0	16	6.2
2	6.2	17	6.2
3	6.2	18	6.2
4	6.2	19	4.8
5	6.2	20	-
6	6.2	21	-
7	6.2	22	5.1
8	6.2	23	0
9	6.2	24	6.2
10	6.2	25	6.2
11	6.2	26	6.2
12	6.2	27	6.2
13	6.2	28	6.2
14	6.2	29	6.2
15	12.4	30	6.2

IC1202 (LA4280)

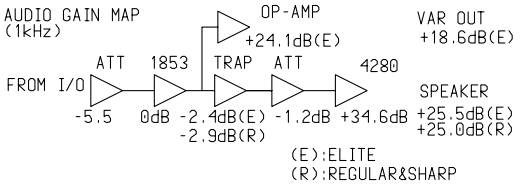
Pin No.	Voltage (V)
1	0.8
2	1.1
3	0.7
4	17.5
5	0
6	0.7
7	1.1
8	0.8
9	0
10	0
11	17.5
12	35.5
13	17.5
14	0

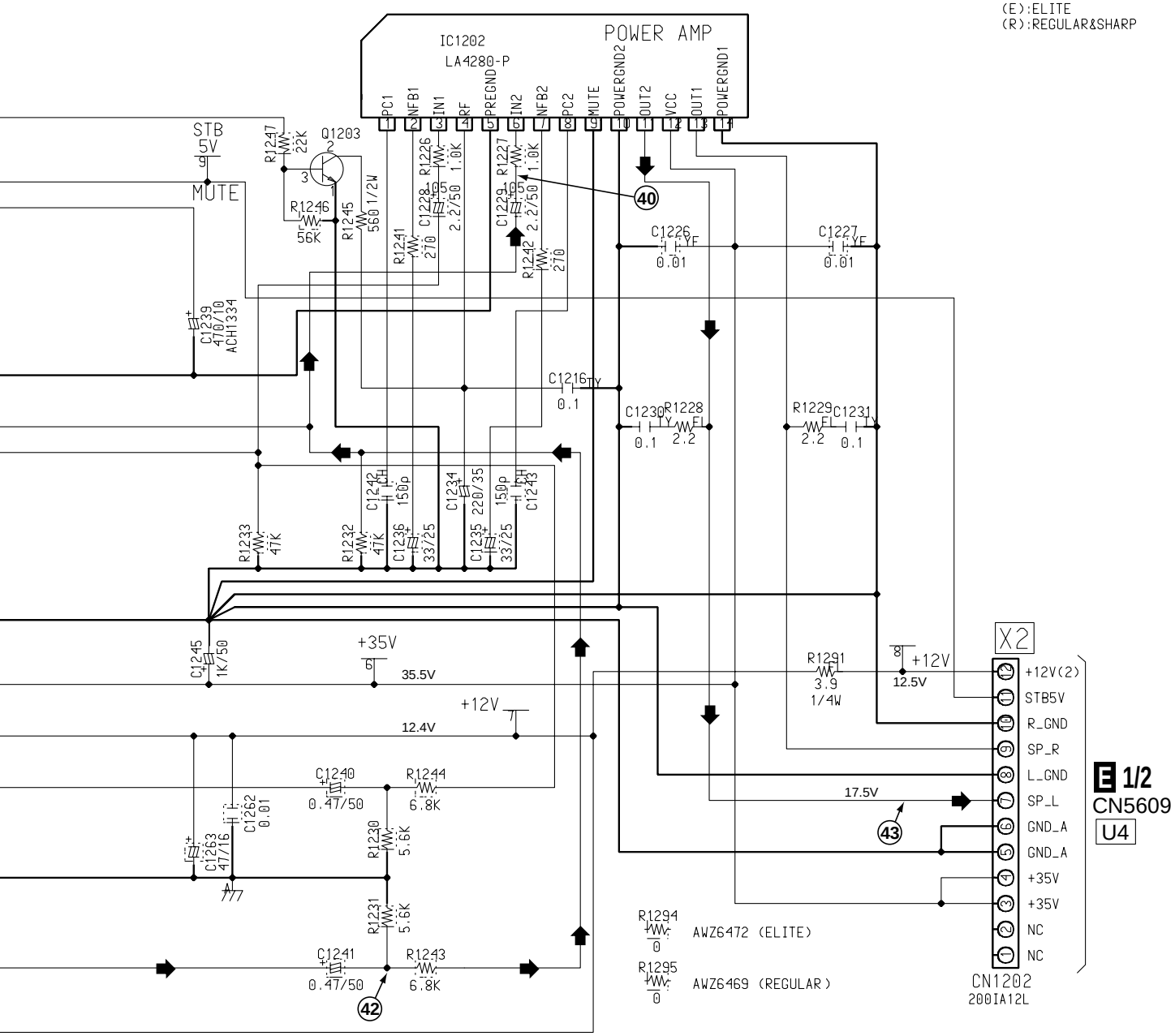
3.16 AUDIO ASSY



G AUDIO ASSY
(AWZ6472 : ELITE)
(AWZ6469 : REGULAR)

: AUDIO SIGNAL ROUTE





E 1/2
CN5609
U4

Notes

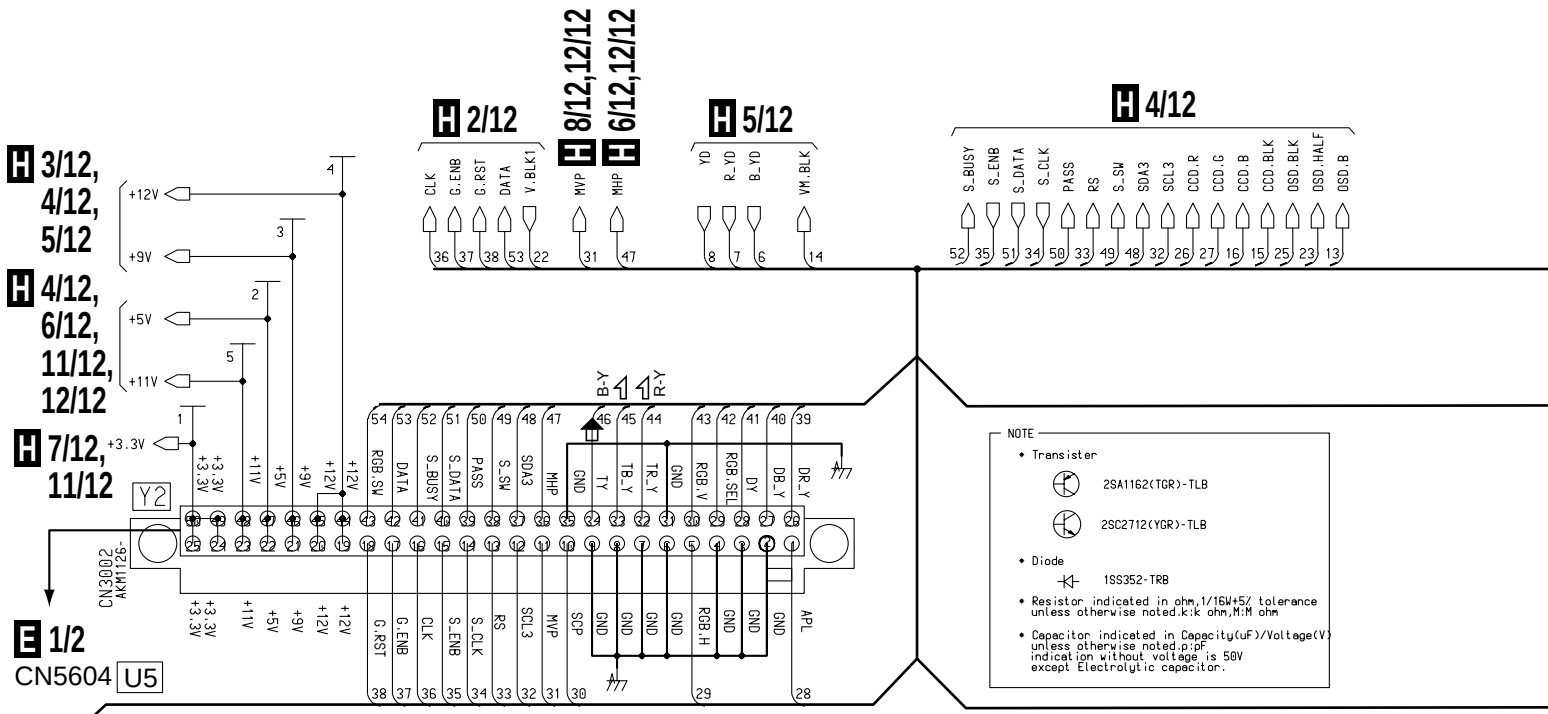
1.RESISTORS
Indicated in Ω
tolerance unless otherwise noted k Ω

2.CAPASITORS
Indicated in capacity(uF)/Voltage unless otherwise noted p pF

Indication without voltage is 50V except electrolytic capacitor.

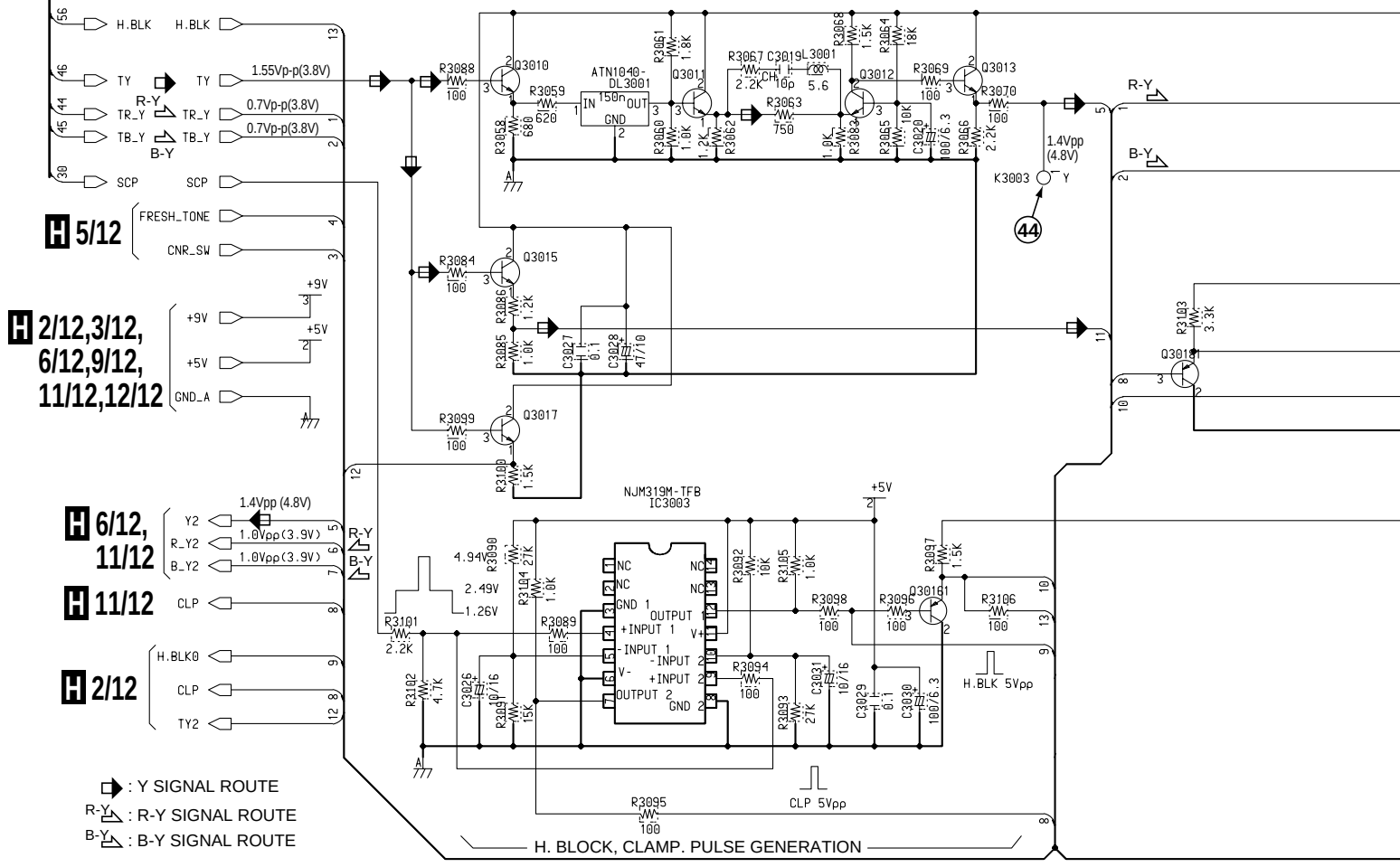
2SA1162(YGR)-TLB
2SC2712(YGR)-TLB
RD___MB-TLB
ISS352-TRB
1/16W

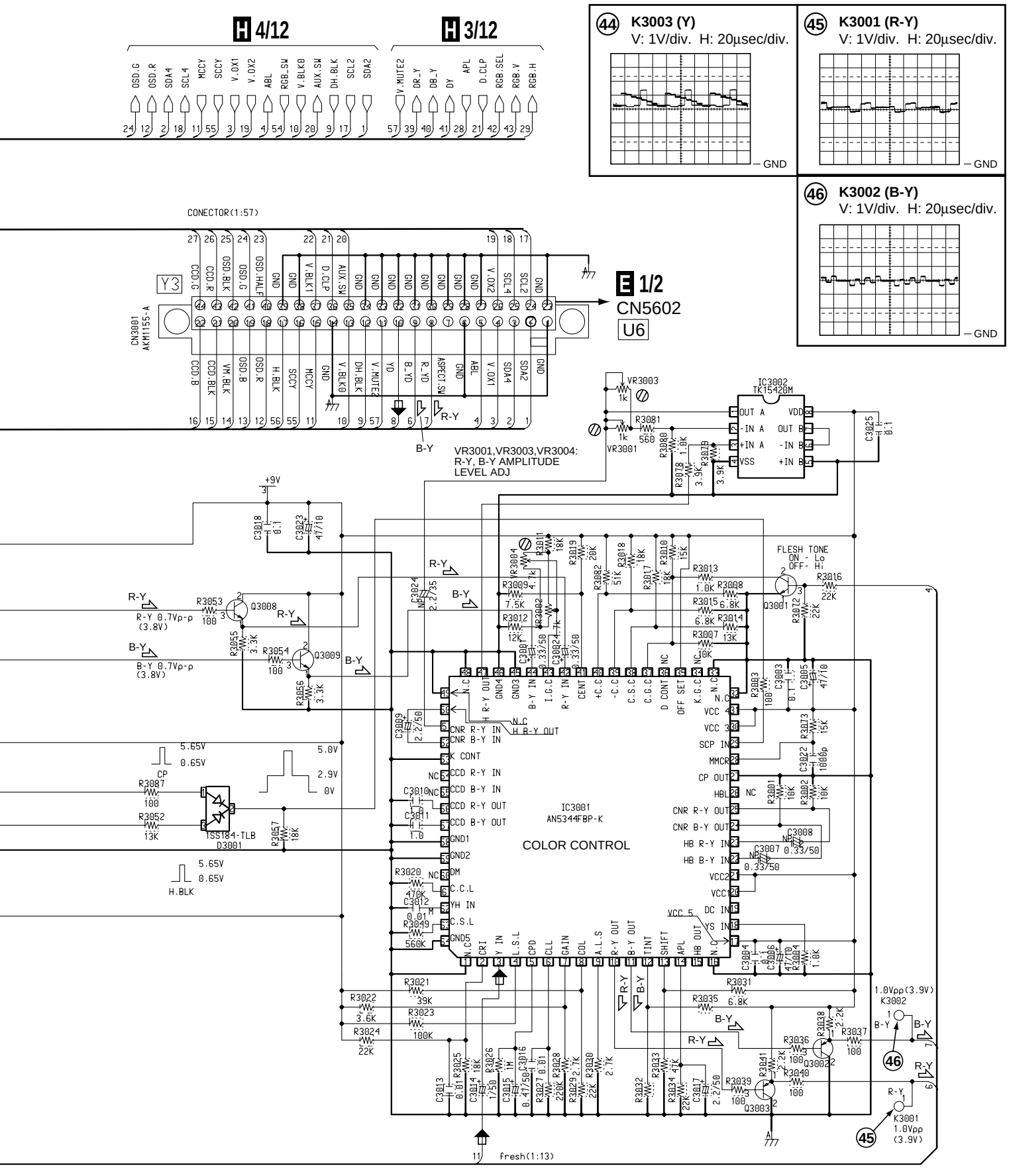
3.17 SUB VIDEO SERVICE and SUB VIDEO ASSYS (1/12)



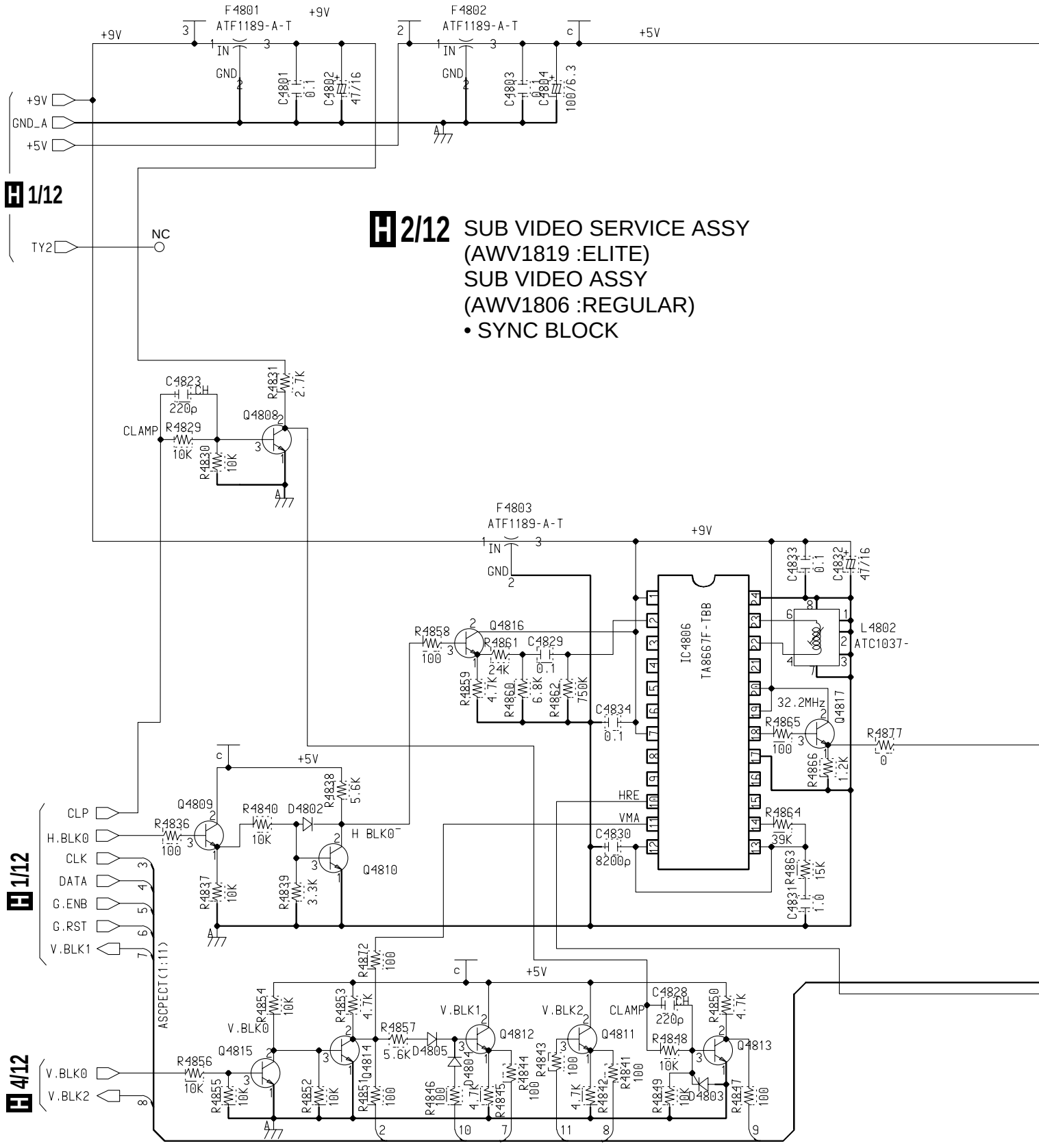
H 1/12 SUB VIDEO SERVICE ASSY (AWV1819 :ELITE) SUB VIDEO ASSY (AWV1806 :REGULAR)

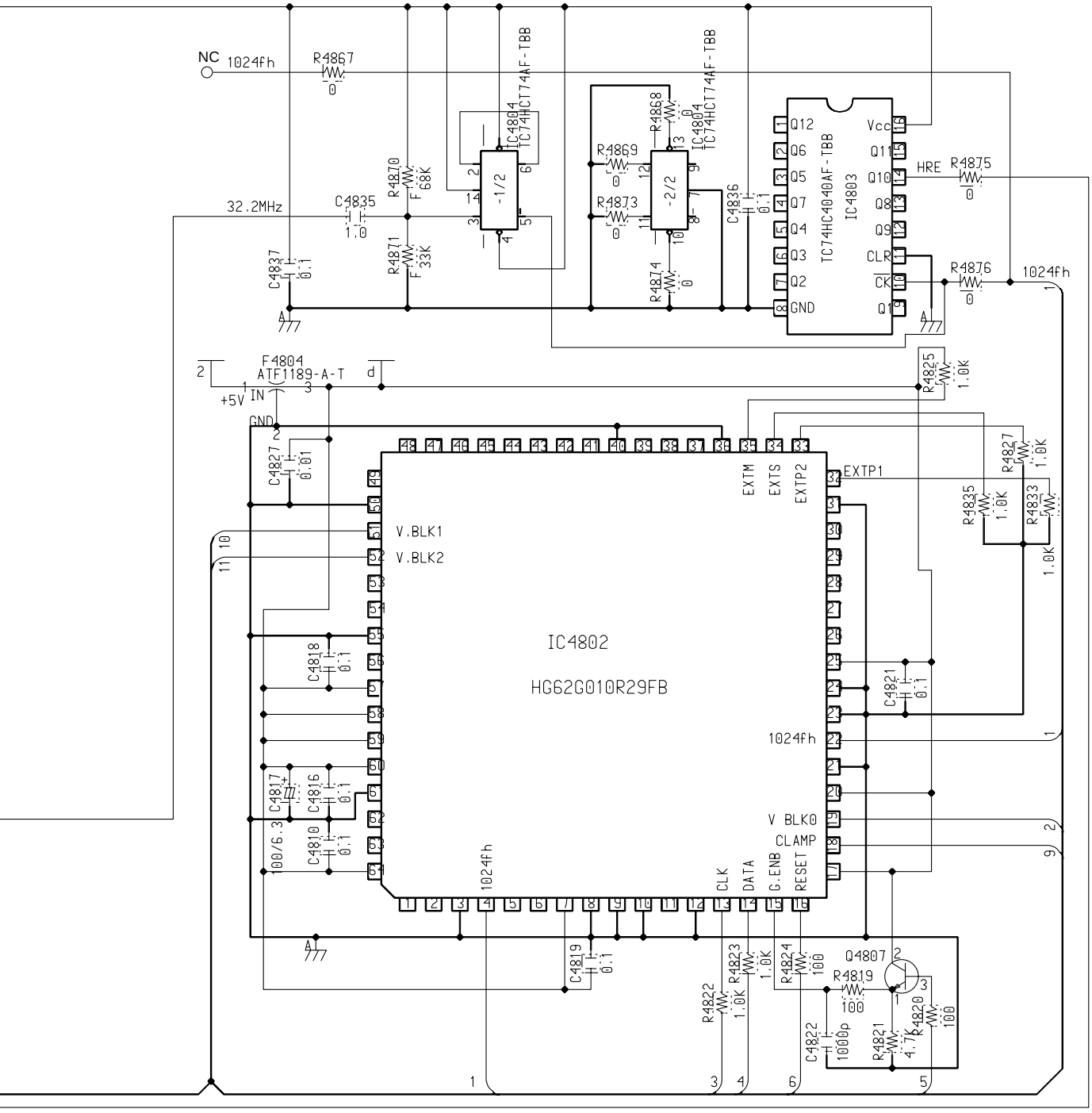
• FLESH TONE BLOCK




H 4/12
H 3/12
OSD.G
OSD.R
SDA4
SCL4
MCCY
SCCY
V.OX1
V.OX2
ABL
RGB_SW
V.BLK0
AUX.SW
DH.BLK
SCL2
SDA2
V.MUTE2
DR_Y
DB_Y
DY
APL
D.CLP
RGB.SEL
RGB.V
RGB.H
44 K3003 (Y)
V: 1V/div. H: 20µsec/div.
45 K3001 (R-Y)
V: 1V/div. H: 20µsec/div.
46 K3002 (B-Y)
V: 1V/div. H: 20µsec/div.
GND
CONECTOR(1:57)
CN3001
AKM1155-A
E 1/2
CN5602
U6
R-Y
B-Y
VR3001,VR3003,VR3004:
R-Y, B-Y AMPLITUDE
LEVEL ADJ
VR3003
VR3001
IC3002
TK15420M
OUT A
VDD
-IN A
OUT B
+IN A
-IN B
VSS
+IN B
+9V
FLESH TONE
ON - H
OFF - L
Q3008
Q3009
Q3001
Q3002
Q3003
R-Y 0.7Vp-p
(3.8V)
B-Y 0.7Vp-p
(3.8V)
5.65V
0.65V
CP
5.0V
2.9V
0V
H.BLK
TSST84-TLB
D3001
IC3001
AN5344FBP-K
COLOR CONTROL
CNR R-Y IN
CNR B-Y IN
K CONT
CCD R-Y IN
CCD B-Y IN
CCD R-Y OUT
CCD B-Y OUT
GND1
GND2
DM
C.C.L
YH IN
C.S.L
GND5
CRI
Y IN
L.S.L
CPD
CLL
GAIN
COL
A.L.S
R-Y OUT
B-Y OUT
TINT
SHIFT
APL
HB OUT
CNR R-Y OUT
CNR B-Y OUT
HB R-Y IN
HB B-Y IN
VCC 5
DC IN
YS IN
SCP IN
MMCR
CP OUT
HBL
1.0Vpp(3.9V)
K3002
K3001
1.0Vpp
(3.9V)
fresh(1:13)

3.18 SUB VIDEO SERVICE and SUB VIDEO ASSYS (2/12)



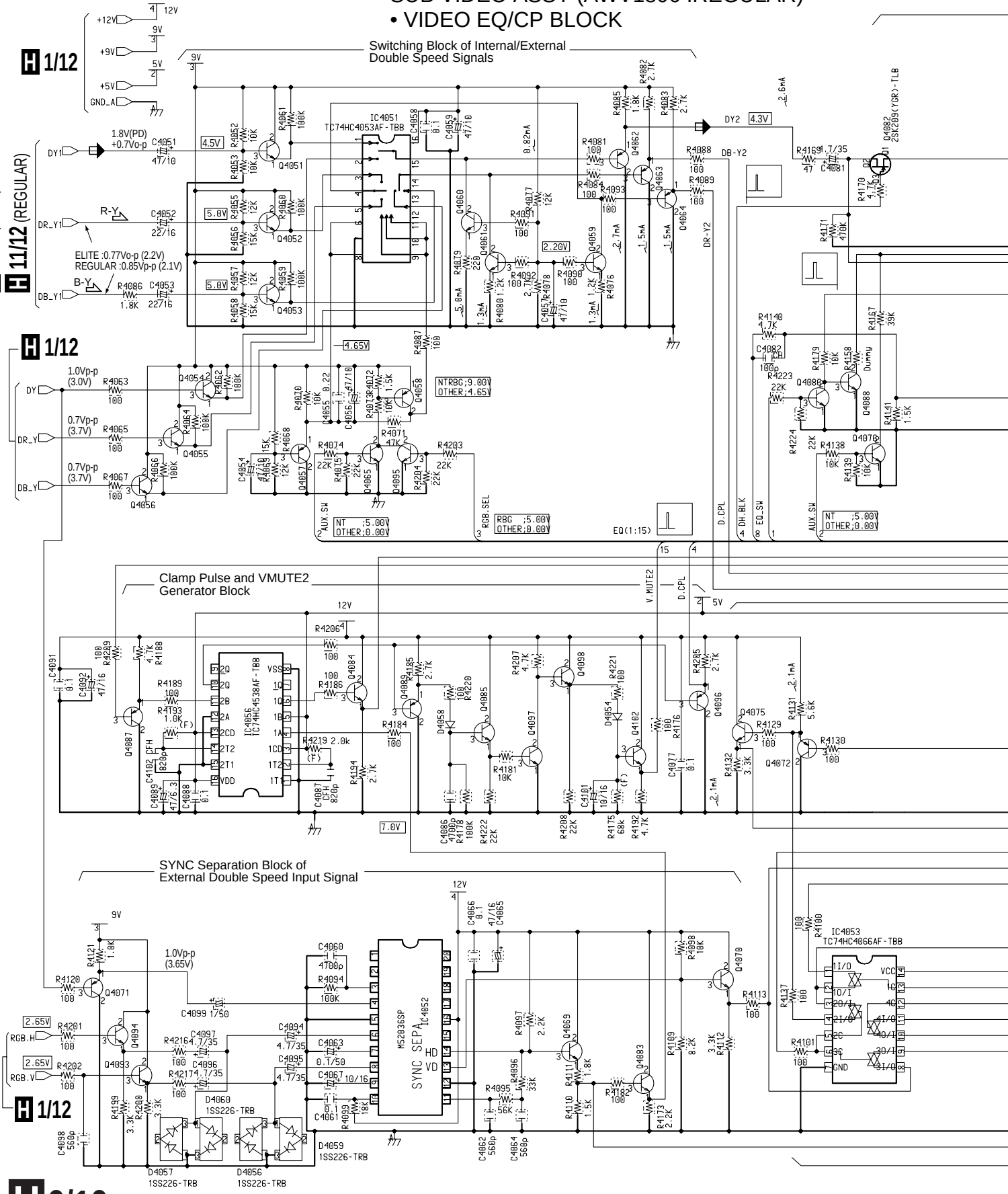


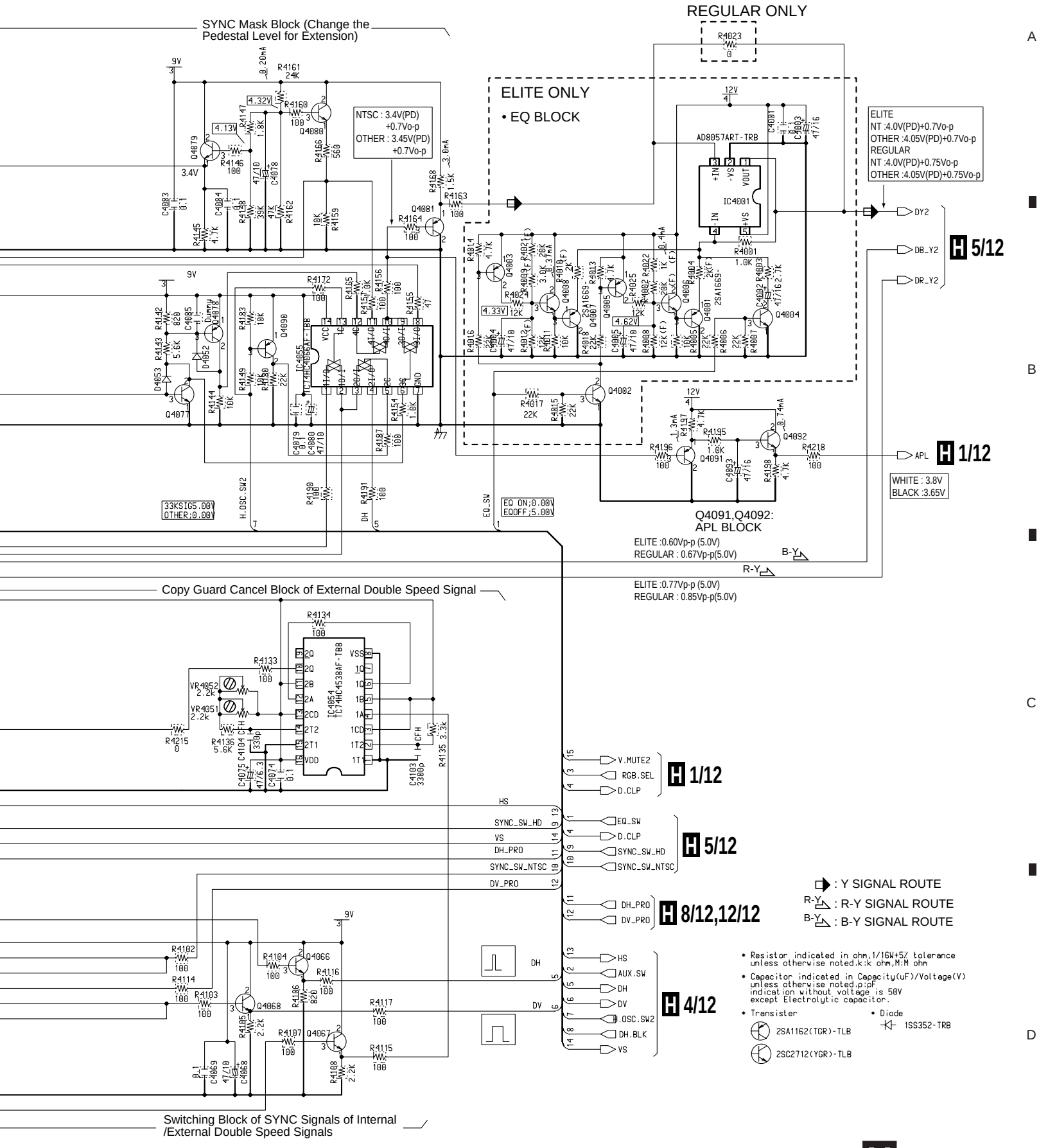
* Resistor indicated in ohm,1/16W+5% tolerance unless otherwise noted.k:k ohm,M:M ohm
* Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF indication without voltage is 50V except Electrolytic capacitor.

1SS352-TRB
2SC2712(YGR)-TLB
2SA1162(YGR)-TLB

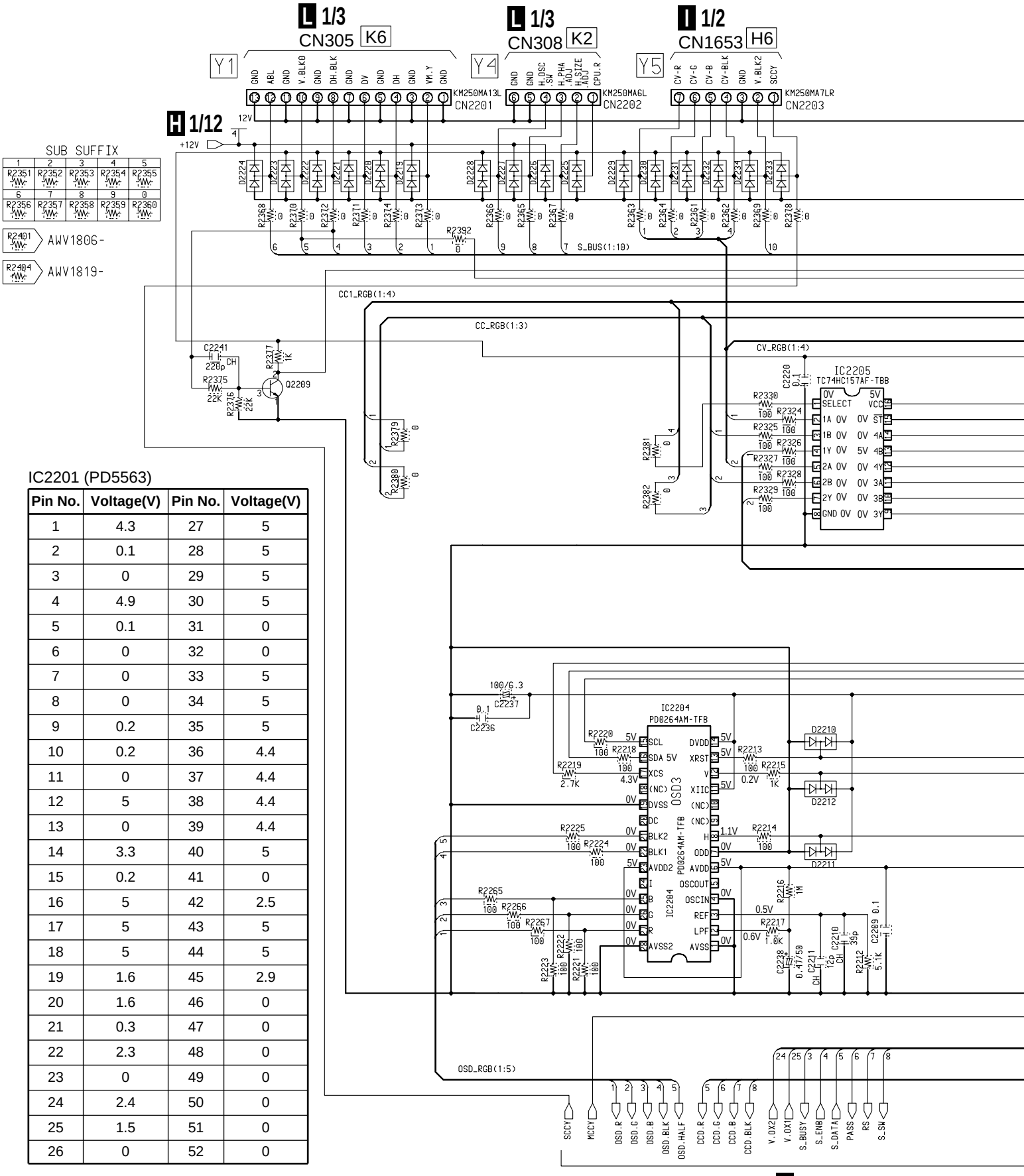
3.19 SUB VIDEO SERVICE and SUB VIDEO ASSYS (3/12)

H 3/12 SUB VIDEO SERVICE ASSY (AWV1819 :ELITE)
SUB VIDEO ASSY (AWV1806 :REGULAR)
• VIDEO EQ/CP BLOCK




REGULAR ONLY
SYNC Mask Block (Change the Pedestal Level for Extension)
ELITE ONLY
• EQ BLOCK
NTSC : 3.4V(PD) +0.7Vo-p
OTHER : 3.45V(PD) +0.7Vo-p
ELITE
NT :4.0V(PD)+0.7Vo-p
OTHER :4.05V(PD)+0.7Vo-p
REGULAR
NT :4.0V(PD)+0.75Vo-p
OTHER :4.05V(PD)+0.75Vo-p
AD8057ART-TRB
IC4001
DY2
DB_Y2
DR_Y2
H 5/12
APL
H 1/12
WHITE : 3.8V
BLACK :3.65V
Q4091,Q4092:
APL BLOCK
ELITE :0.60Vp-p (5.0V)
REGULAR : 0.67Vp-p(5.0V)
B-Y
R-Y
ELITE :0.77Vp-p (5.0V)
REGULAR : 0.85Vp-p(5.0V)
33KSIC5.00V
OTHER;0.00V
H.OSC.SW2
EQ ON;0.00V
EQOFF;5.00V
EQ.SW
Copy Guard Cancel Block of External Double Speed Signal
IC4054
IC74HC4538AF-TBB
V.MUTE2
RGB.SEL
D.CLP
H 1/12
HS
SYNC_SW_HD
VS
DH_PRO
SYNC_SW_NTSC
EQ_SW
D.CLP
SYNC_SW_HD
SYNC_SW_NTSC
H 5/12
DV_PRO
DH_PRO
DV_PRO
H 8/12,12/12
DH
DV
HS
AUX.SW
DH
DV
H.OSC.SW2
DH.BLK
VS
H 4/12
: Y SIGNAL ROUTE
R-Y : R-Y SIGNAL ROUTE
B-Y : B-Y SIGNAL ROUTE
• Resistor indicated in ohm,1/16W±5% tolerance unless otherwise noted.k:k ohm,M:M ohm
• Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF indication without voltage is 50V except Electrolytic capacitor.
• Transister
2SA1162(TGR)-TLB
2SC2712(YGR)-TLB
• Diode
1SS352-TRB
Switching Block of SYNC Signals of Internal /External Double Speed Signals

3.20 SUB VIDEO SERVICE and SUB VIDEO ASSYS (4/12)

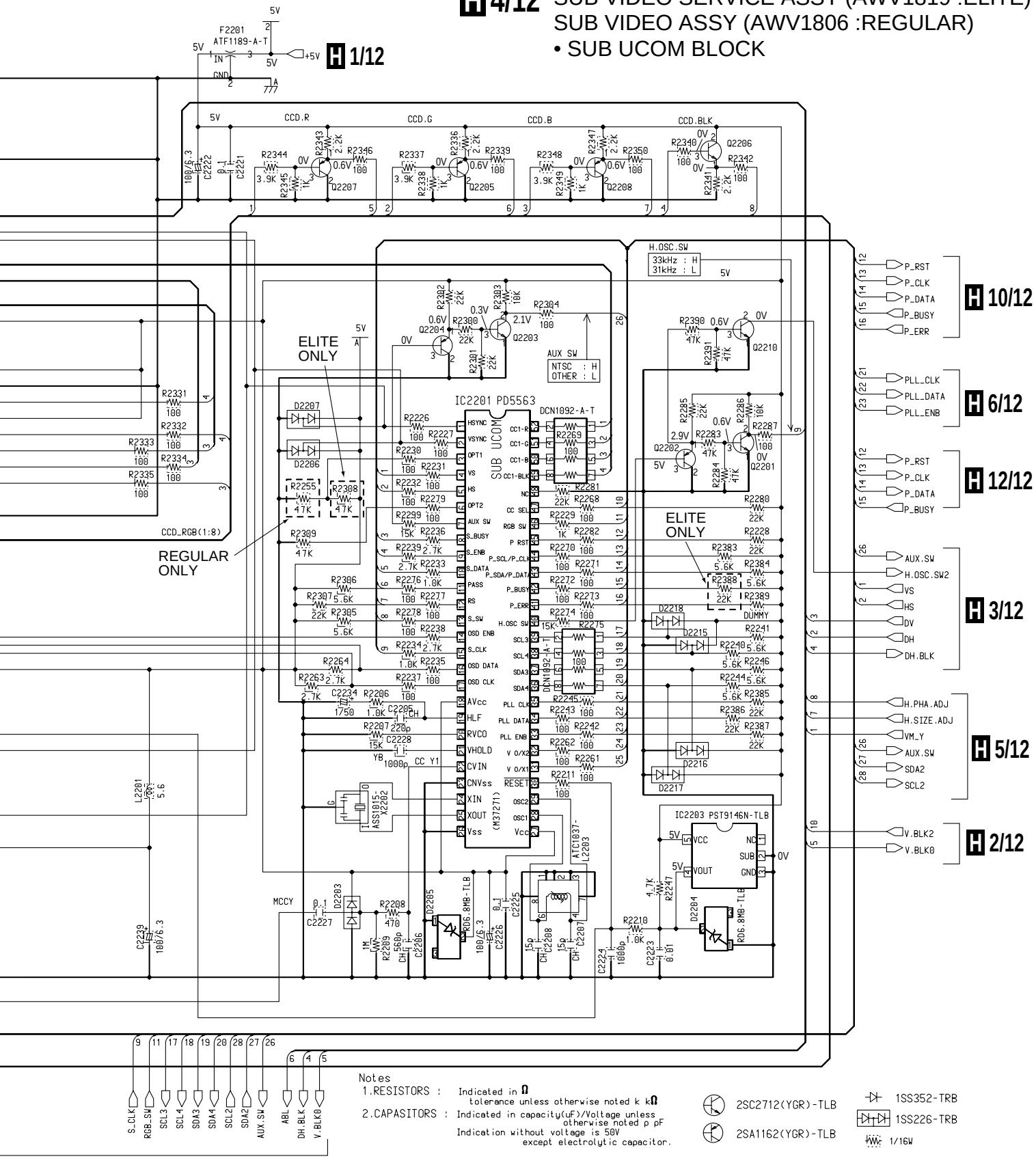


IC2201 (PD5563)

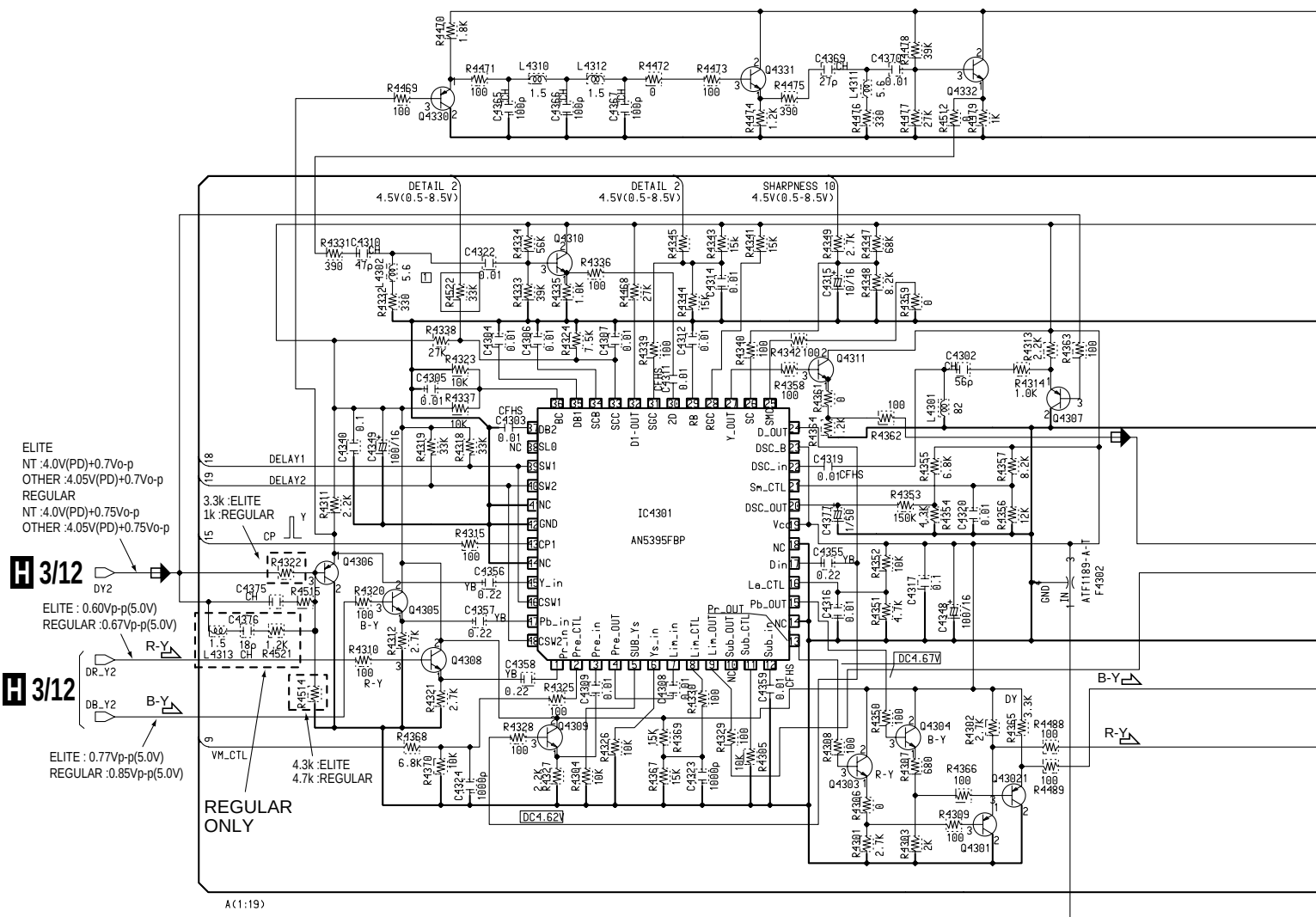
Pin No.	Voltage(V)	Pin No.	Voltage(V)
1	4.3	27	5
2	0.1	28	5
3	0	29	5
4	4.9	30	5
5	0.1	31	0
6	0	32	0
7	0	33	5
8	0	34	5
9	0.2	35	5
10	0.2	36	4.4
11	0	37	4.4
12	5	38	4.4
13	0	39	4.4
14	3.3	40	5
15	0.2	41	0
16	5	42	2.5
17	5	43	5
18	5	44	5
19	1.6	45	2.9
20	1.6	46	0
21	0.3	47	0
22	2.3	48	0
23	0	49	0
24	2.4	50	0
25	1.5	51	0
26	0	52	0

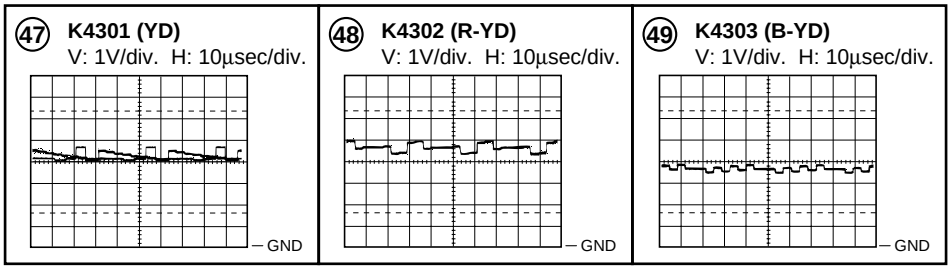
H 4/12 SUB VIDEO SERVICE ASSY (AWV1819 :ELITE)
SUB VIDEO ASSY (AWV1806 :REGULAR)

• SUB UCOM BLOCK

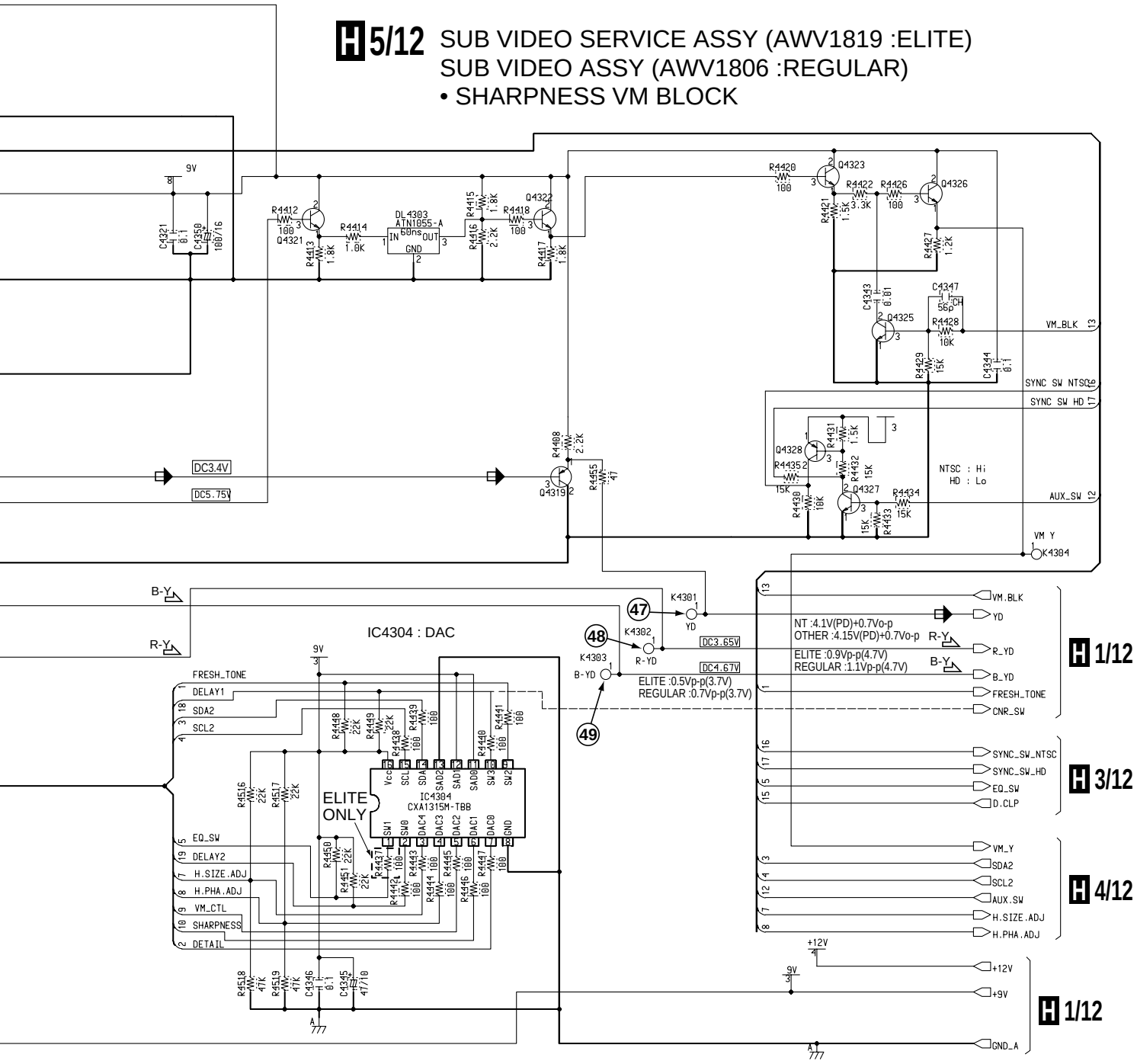


3.21 SUB VIDEO SERVICE and SUB VIDEO ASSYS (5/12)





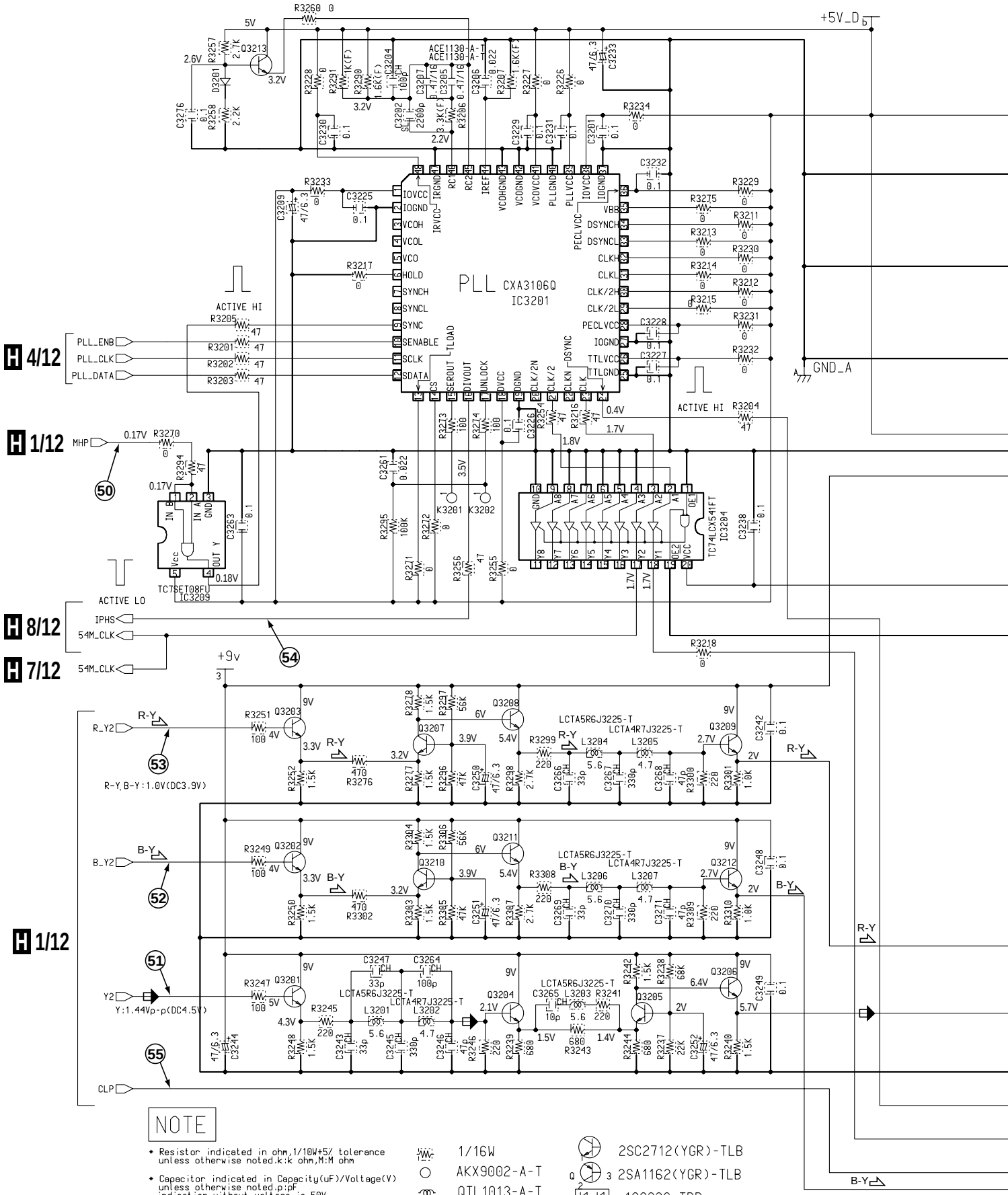
H 5/12 SUB VIDEO SERVICE ASSY (AWV1819 :ELITE)
SUB VIDEO ASSY (AWV1806 :REGULAR)
• SHARPNESS VM BLOCK



- Resistor indicated in ohm,1/16W±5% tolerance unless otherwise noted.k:k ohm,M:M ohm
- Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF indication without voltage is 50V except Electrolytic capacitor.
- Transister
  - 2SA1162(TGR)-TLB
  - 2SC2712(YGR)-TLB
- Diode
  - 1SS352-TRB

: Y SIGNAL ROUTE
R-Y : R-Y SIGNAL ROUTE
B-Y : B-Y SIGNAL ROUTE

3.22 SUB VIDEO SERVICE ASSY (6/12) (ELITE ONLY)



NOTE

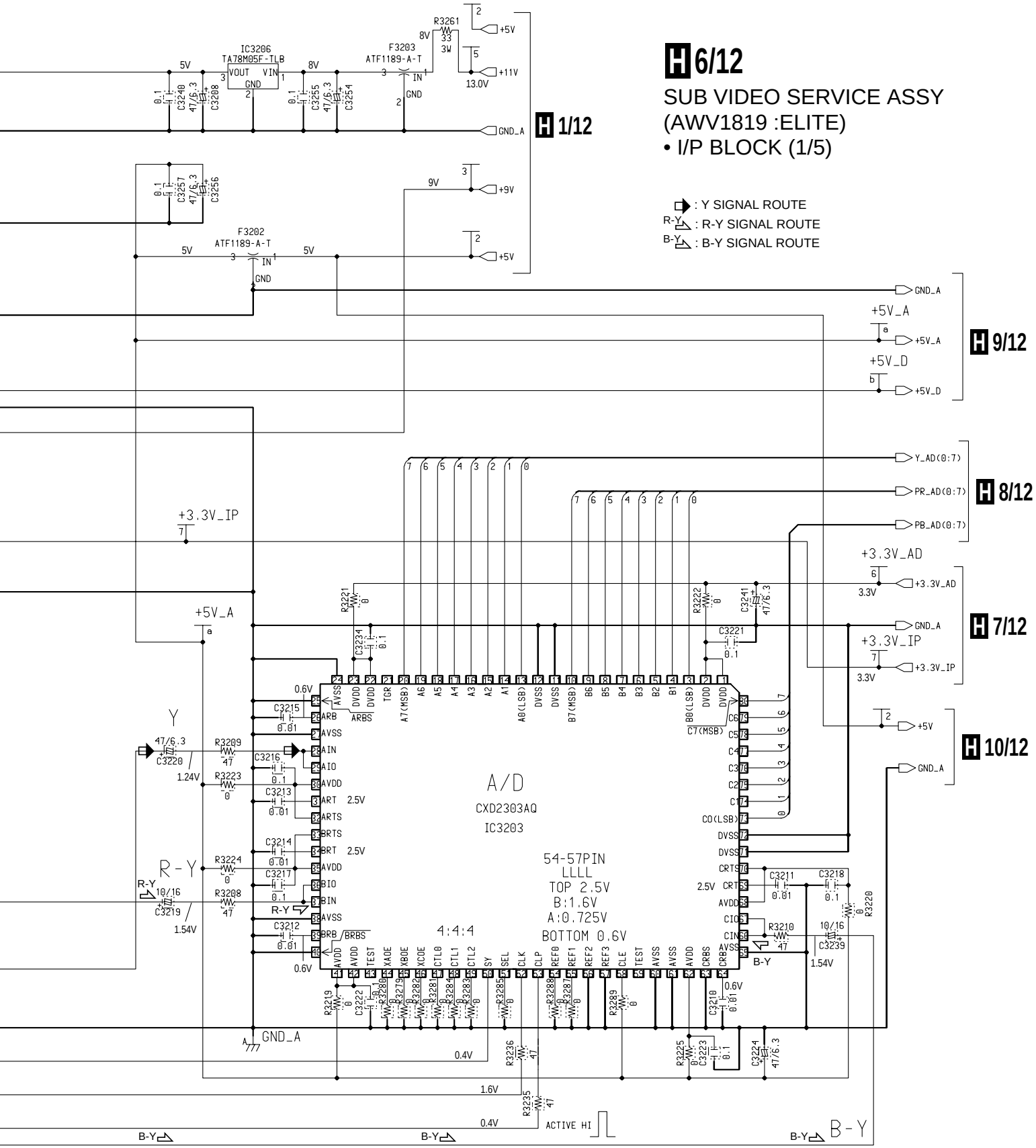
- Resistor indicated in ohm,1/10W±5% tolerance unless otherwise noted.k:k ohm,M:M ohm
- Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF. indication without voltage is 50V except Electrolytic capacitor.

1/16W
AKX9002-A-T
QTL1013-A-T
2SC2712(YGR)-TLB
2SA1162(YGR)-TLB
1SS226-TRB
1SS352-TRB

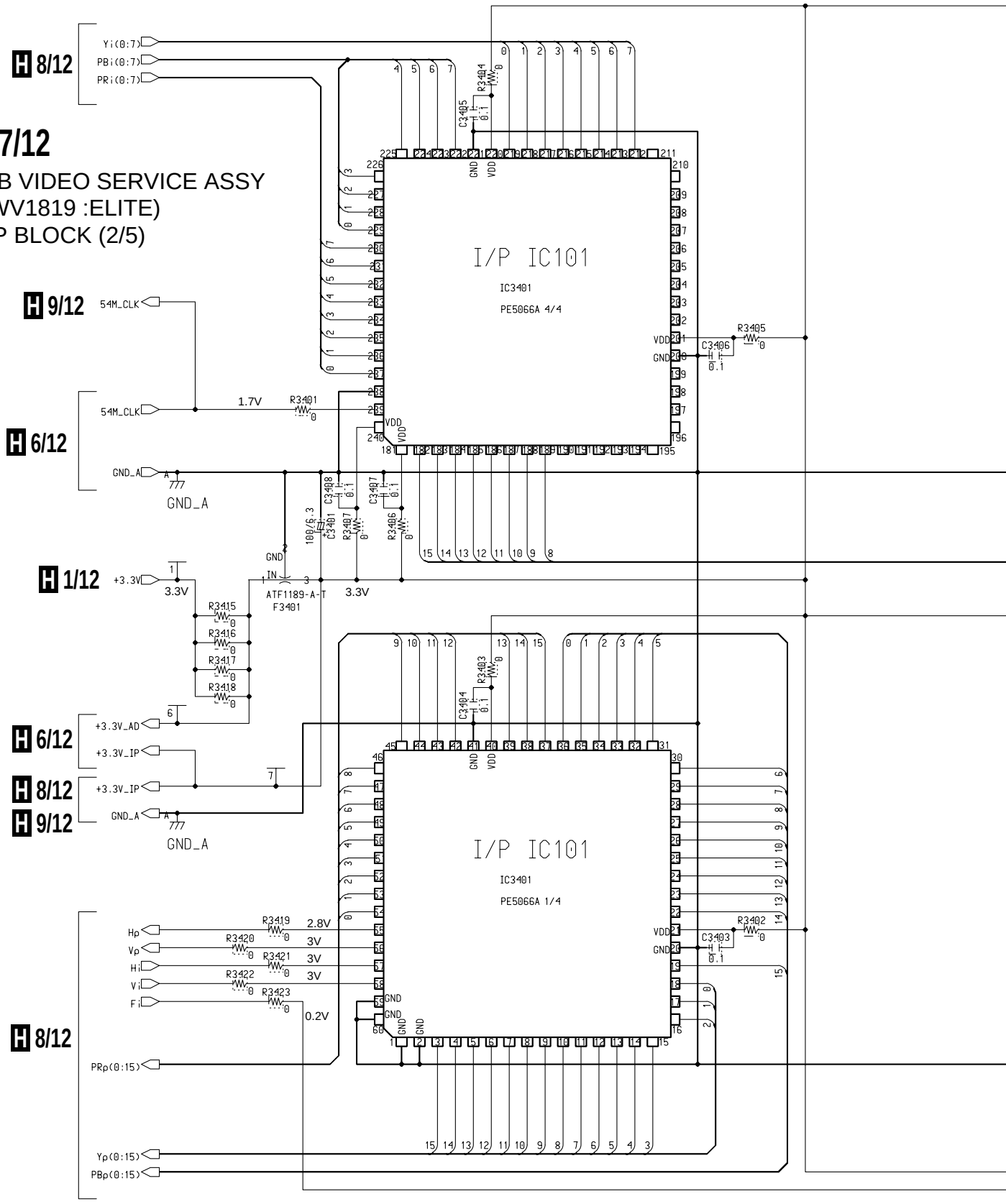
H 6/12

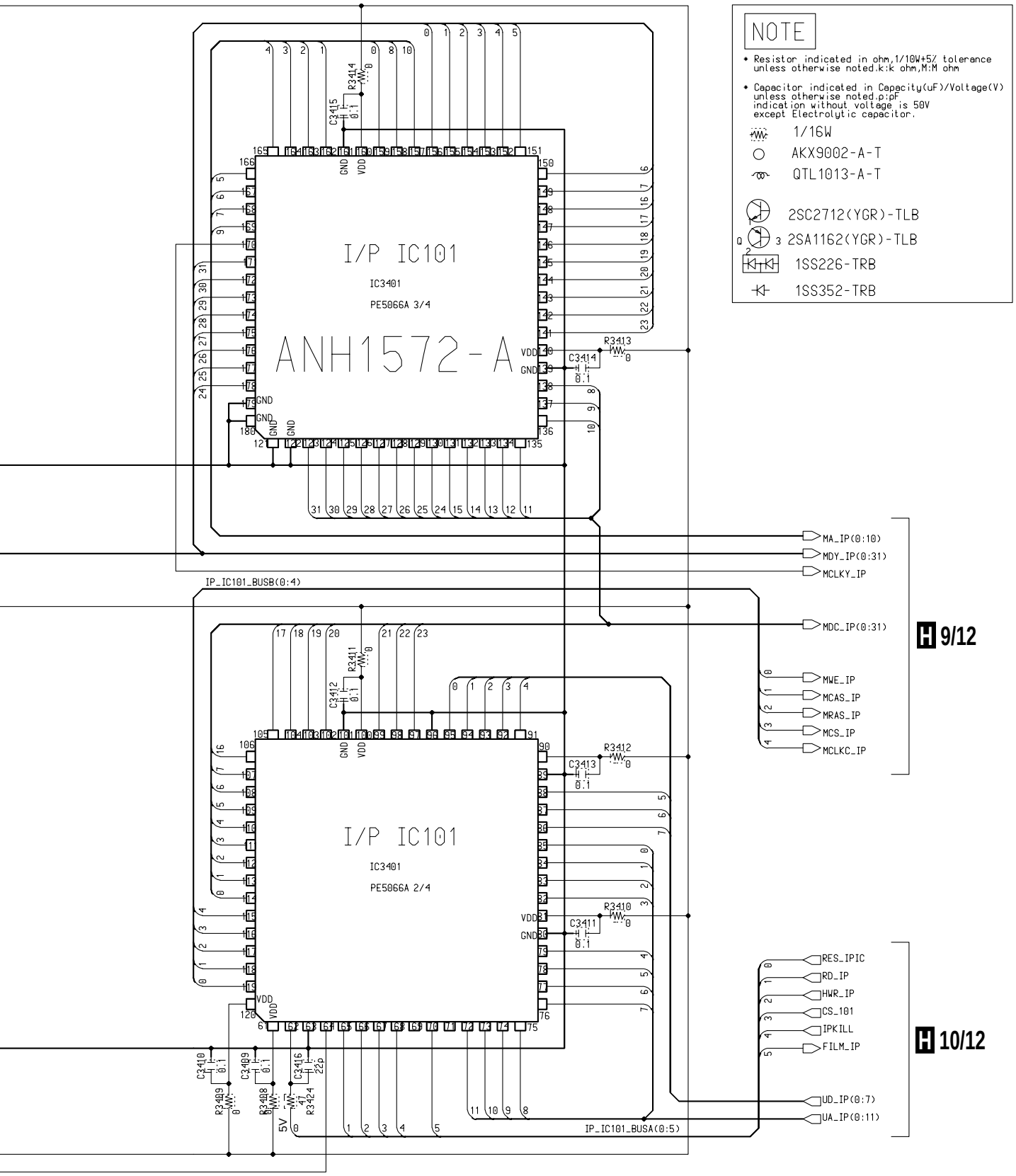
SUB VIDEO SERVICE ASSY
(AWV1819 :ELITE)
• I/P BLOCK (1/5)

: Y SIGNAL ROUTE
R-Y : R-Y SIGNAL ROUTE
B-Y : B-Y SIGNAL ROUTE

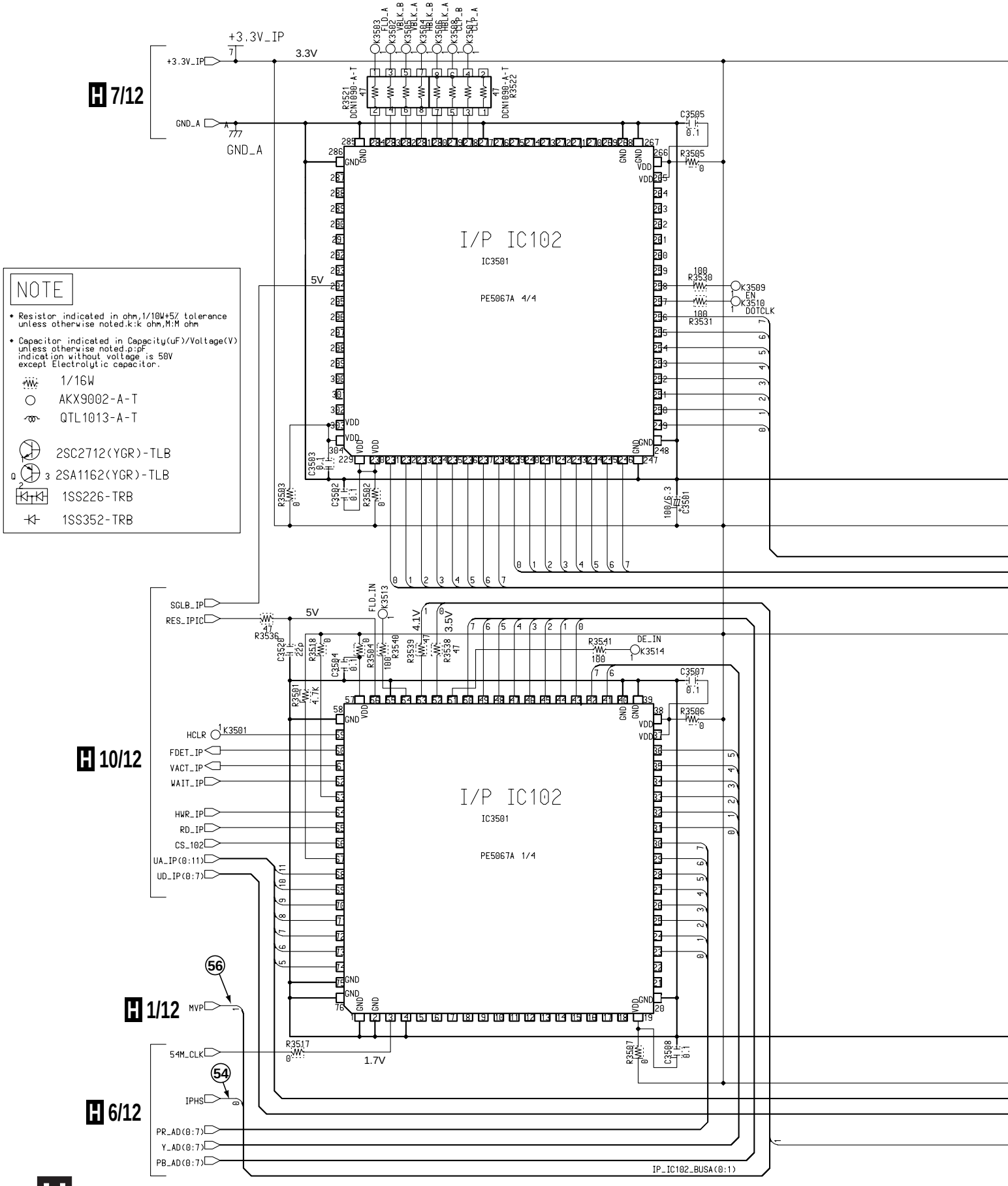


3.23 SUB VIDEO SERVICE ASSY (7/12) (ELITE ONLY)



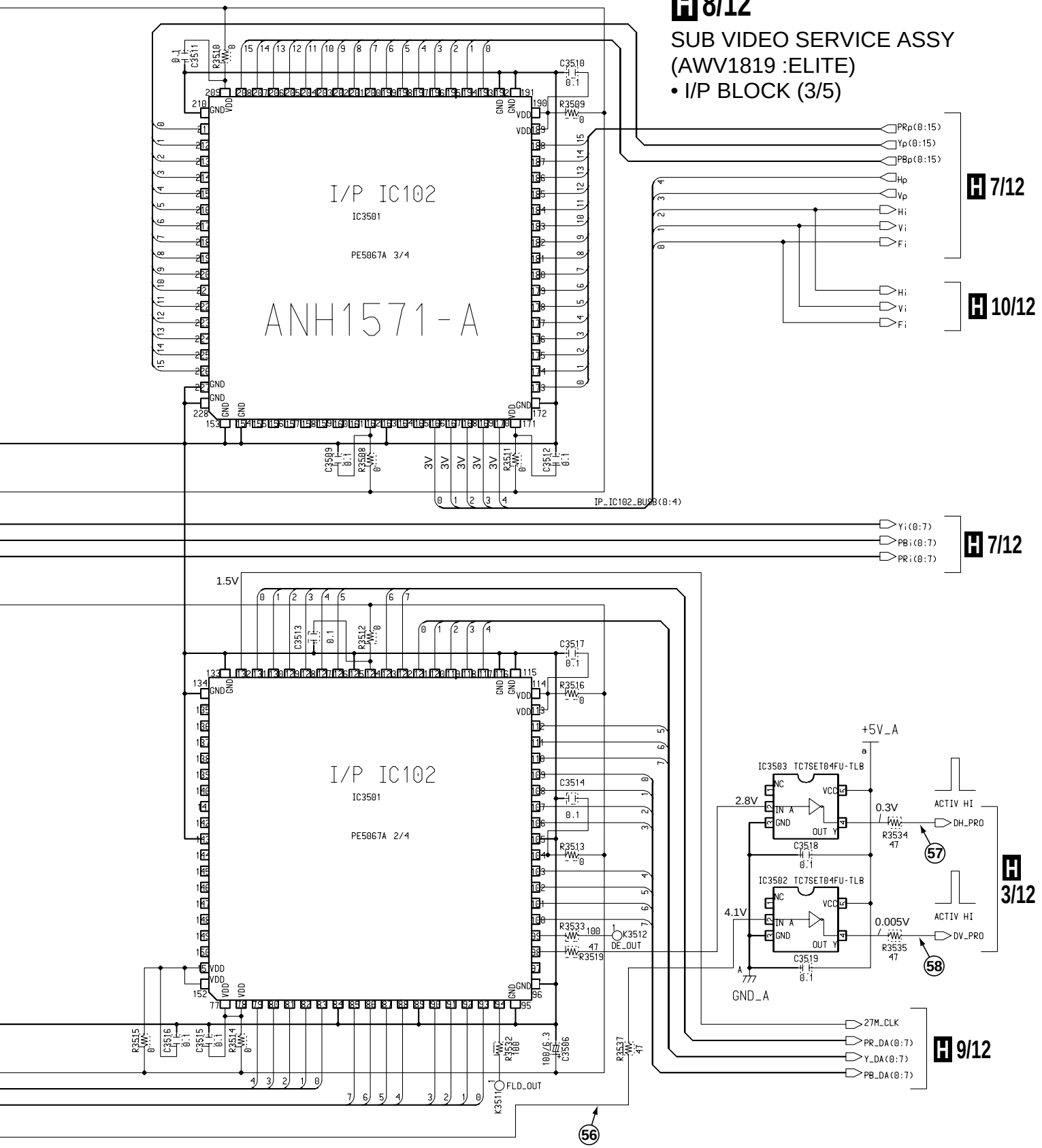

NOTE
• Resistor indicated in ohm,1/10W±5% tolerance unless otherwise noted.k:k ohm,M:M ohm
• Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF indication without voltage is 50V except Electrolytic capacitor.
1/16W
AKX9002-A-T
QTL1013-A-T
2SC2712(YGR)-TLB
2SA1162(YGR)-TLB
1SS226-TRB
1SS352-TRB
I/P IC101
IC3401
PE5066A 3/4
ANH1572-A
I/P IC101
IC3401
PE5066A 2/4
R3414
C3415
R3413
C3414
R3411
C3412
R3412
C3413
R3410
C3411
C3410
C3409
C3416
R3409
R3408
R3424
5V
MA_IP(0:10)
MDY_IP(0:31)
MCLKY_IP
IP_IC101_BUSB(0:4)
MDC_IP(0:31)
MWE_IP
MCAS_IP
MRAS_IP
MCS_IP
MCLKC_IP
H 9/12
RES_IPIC
RD_IP
HWR_IP
CS_101
IPKILL
FILM_IP
H 10/12
UD_IP(0:7)
UA_IP(0:11)
IP_IC101_BUSA(0:5)

3.24 SUB VIDEO SERVICE ASSY (8/12) (ELITE ONLY)

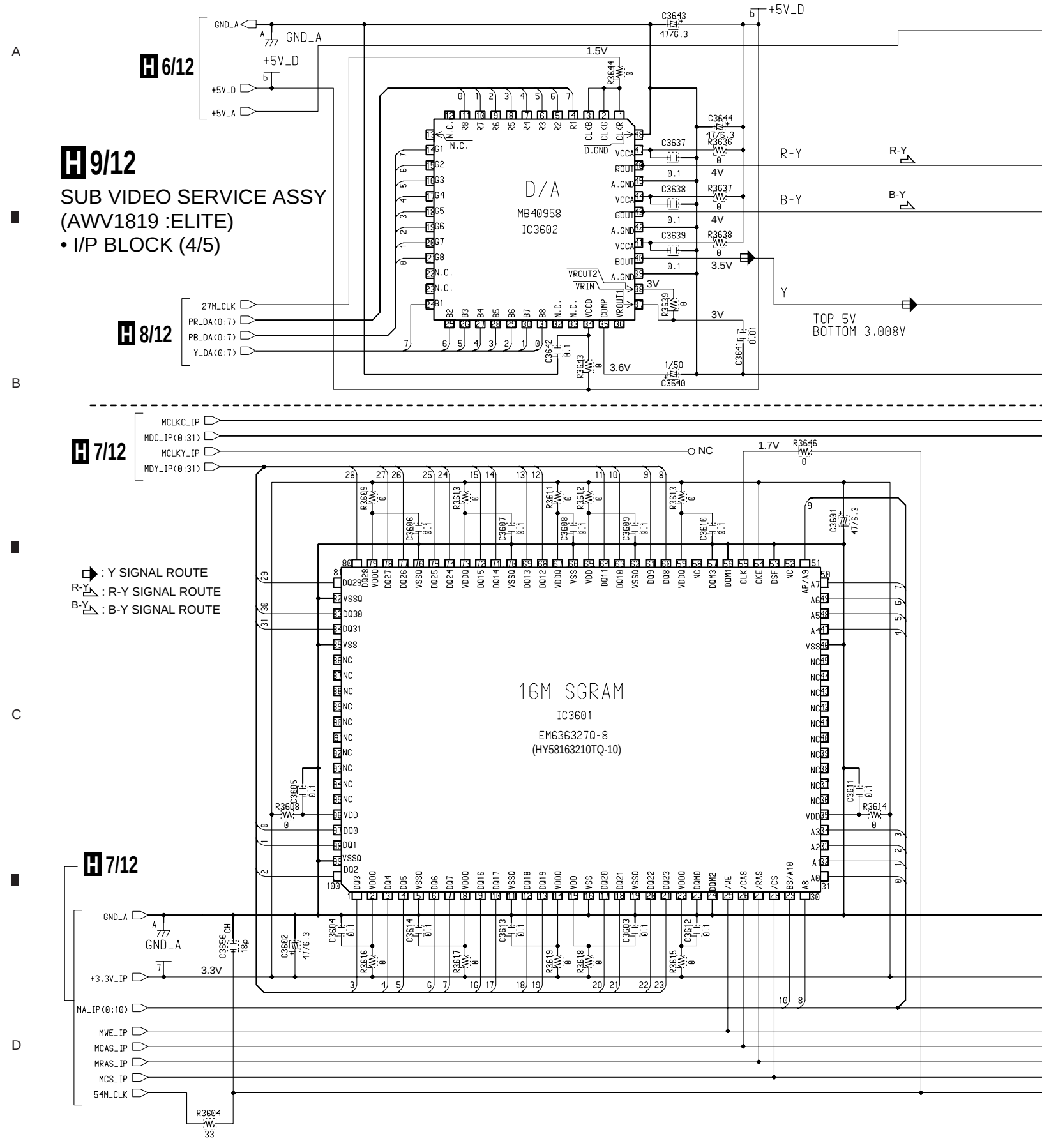


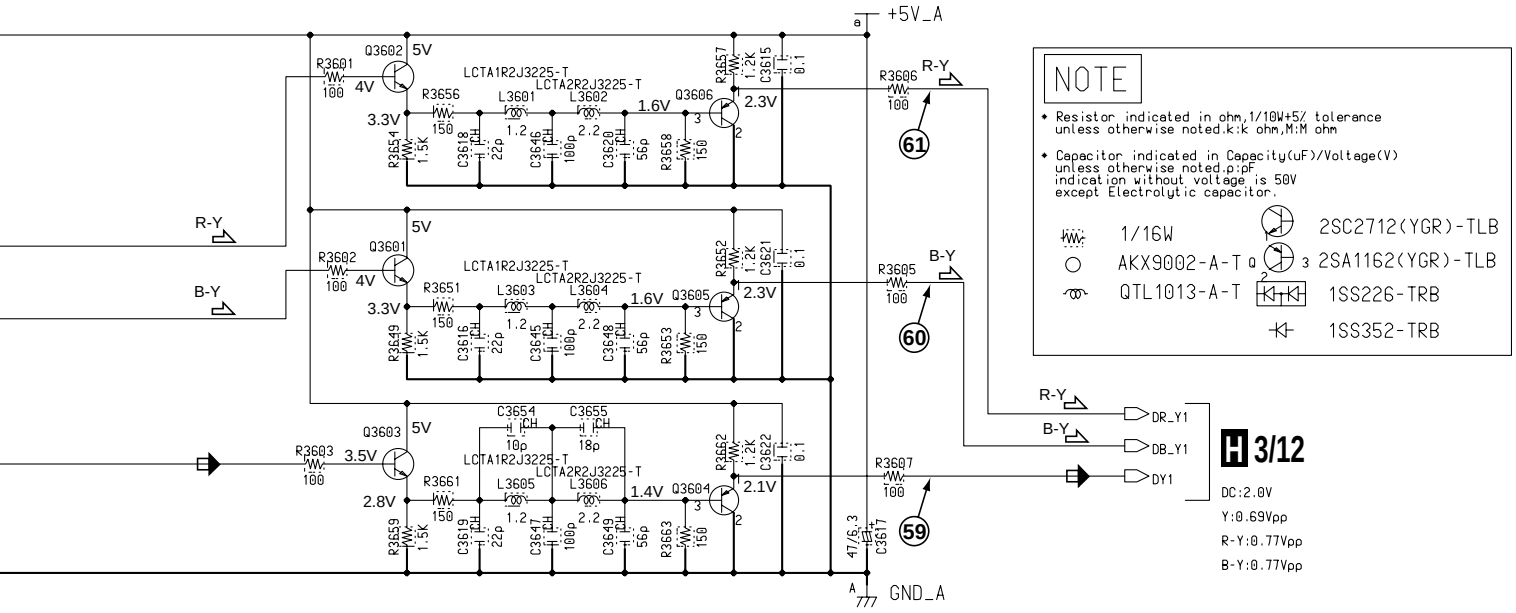
H 8/12

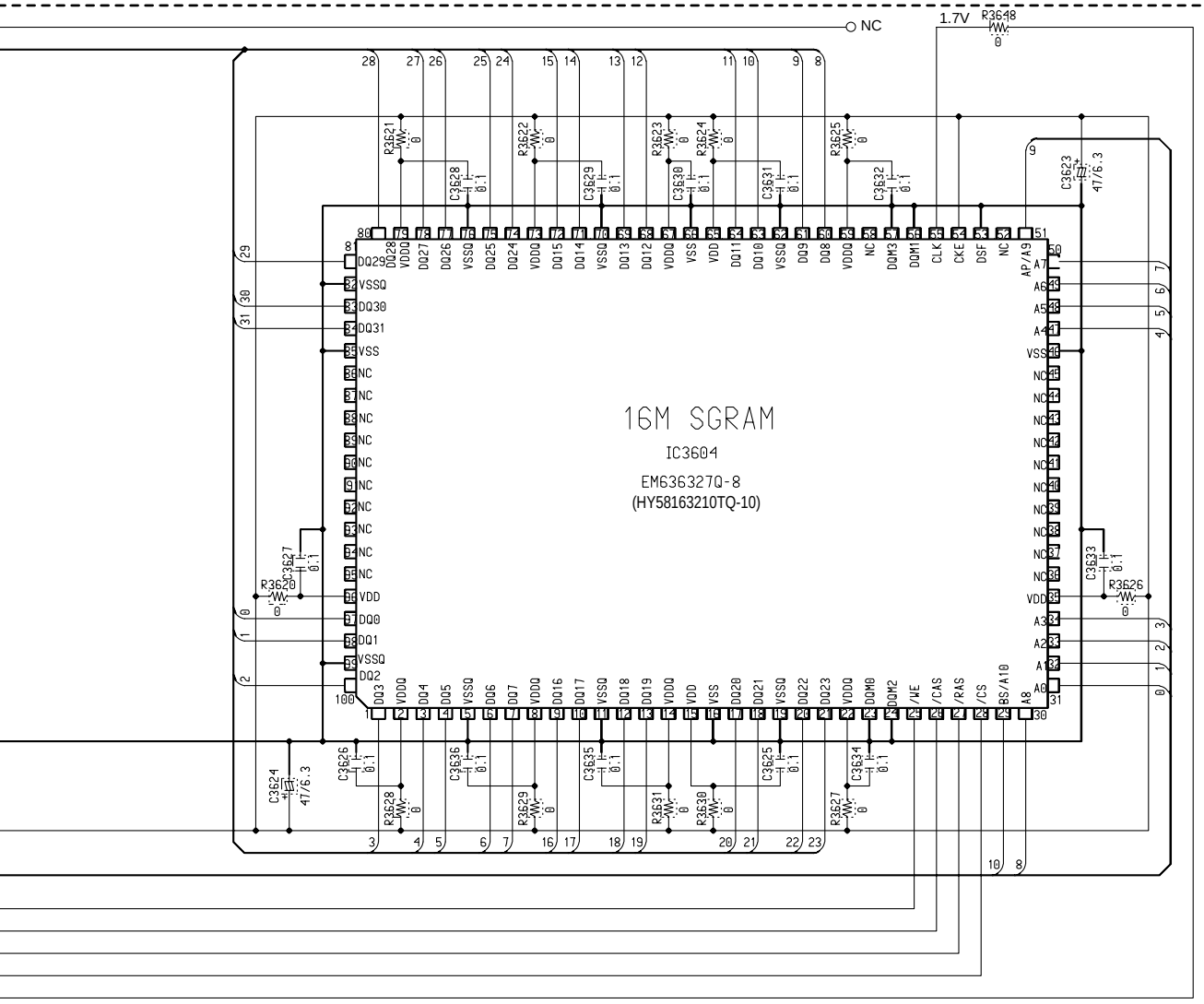
SUB VIDEO SERVICE ASSY
(AWV1819 :ELITE)
• I/P BLOCK (3/5)



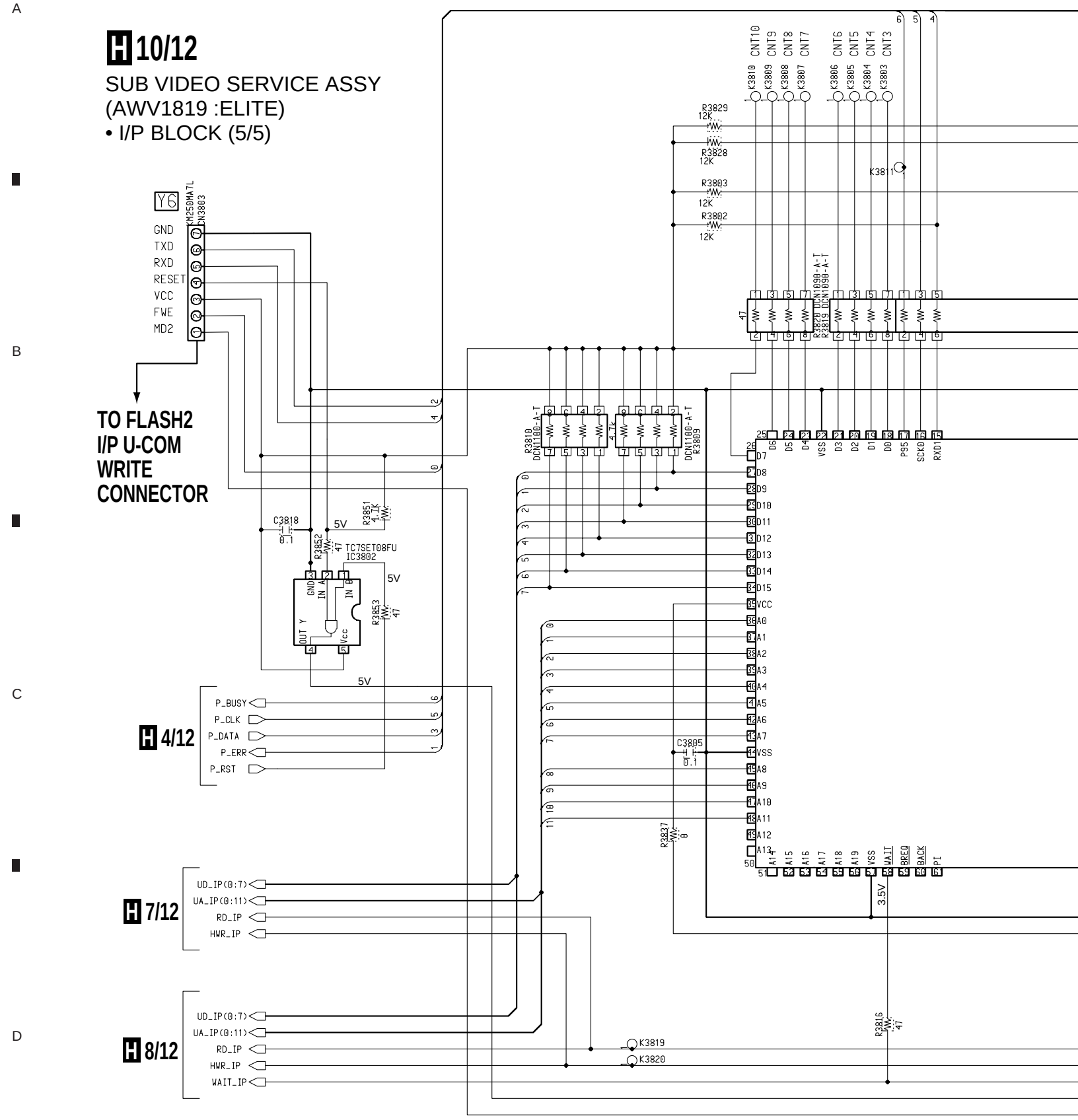
3.25 SUB VIDEO SERVICE ASSY (9/12) (ELITE ONLY)

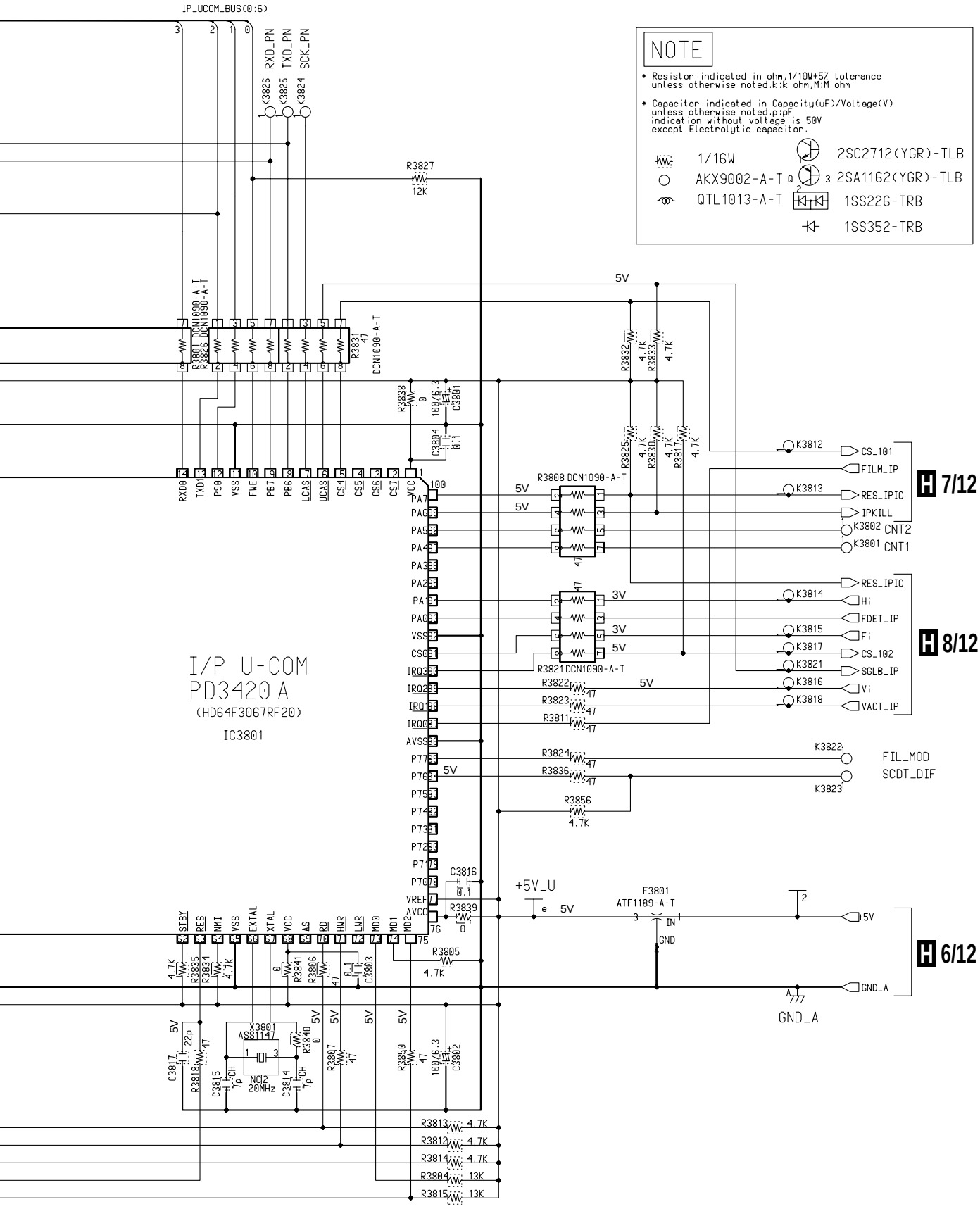



+5V_A
R-Y
B-Y
DR_Y1
DB_Y1
DY1
3/12
DC:2.0V
Y:0.69Vpp
R-Y:0.77Vpp
B-Y:0.77Vpp
GND_A
NOTE
Resistor indicated in ohm,1/10W+5% tolerance unless otherwise noted.k:k ohm,M:M ohm
Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF indication without voltage is 50V except Electrolytic capacitor.
1/16W
AKX9002-A-T
QTL1013-A-T
2SC2712(YGR)-TLB
2SA1162(YGR)-TLB
1SS226-TRB
1SS352-TRB


NC
1.7V
16M SGRAM
IC3604
EM636327Q-8
(HY58163210TQ-10)

3.26 SUB VIDEO SERVICE ASSY (10/12) (ELITE ONLY)



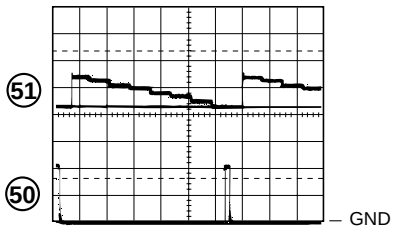

IP_UCOM_BUS(0:6)
RXD_PN
TXD_PN
SCK_PN
NOTE
• Resistor indicated in ohm,1/10W+5% tolerance unless otherwise noted.k:k ohm,M:M ohm
• Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF indication without voltage is 50V except Electrolytic capacitor.
1/16W
AKX9002-A-T
QTL1013-A-T
2SC2712(YGR)-TLB
2SA1162(YGR)-TLB
1SS226-TRB
1SS352-TRB
I/P U-COM
PD3420A
(HD64F3067RF20)
IC3801
CS_101
FILM_IP
RES_IPIC
IPKILL
CNT2
CNT1
Hi
FDET_IP
Fi
CS_102
SGLB_IP
Vi
VACT_IP
FIL_MOD
SCDT_DIF
+5V_U
GND_A
X3801
ASS1147
NC12
20MHz
H 7/12
H 8/12
H 6/12
H 10/12

H 6/12 - 10/12

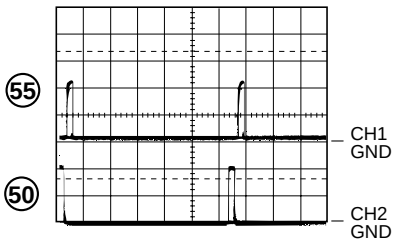
SUB VIDEO SERVICE ASSY (6/12-10/12)

Input signal
Video signal : EIA full field color-bar
Picture quality : Standard
Range :DC range (Unless otherwise noted)

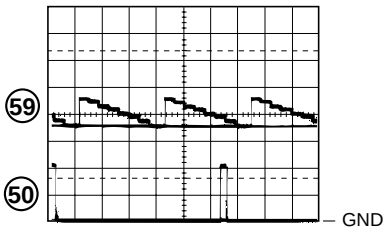
(50) Foot of R3270 (MHP)
V: 2V/div. H: 10µsec/div.
(51) Foot of R3247 (Y2)
V: 1V/div. H: 10µsec/div.



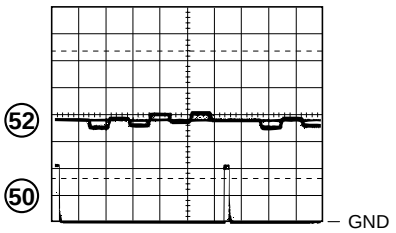
(50) Foot of R3270 (MHP)
V: 2V/div. H: 10µsec/div.
(55) Foot of R3235 (CLP)
V: 1V/div. H: 10µsec/div.



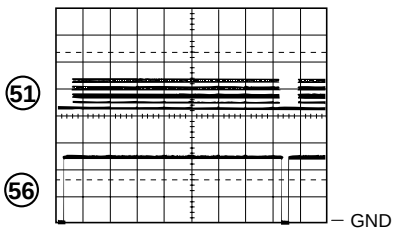
(50) Foot of R3270 (MHP)
V: 2V/div. H: 10µsec/div.
(59) Foot of R3607 (DY1)
V: 0.5V/div. H: 10µsec/div.



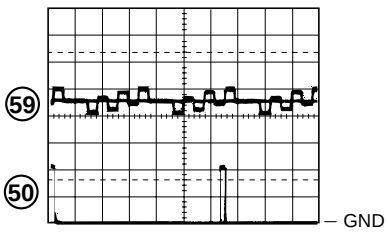
(50) Foot of R3270 (MHP)
V: 2V/div. H: 10µsec/div.
(52) Foot of R3249 (B-Y2)
V: 1V/div. H: 10µsec/div.



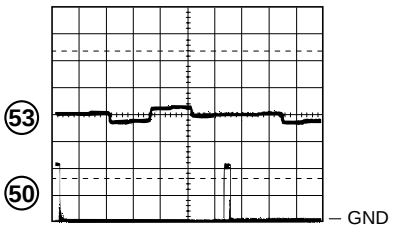
(51) Foot of R3247 (Y2)
V: 1V/div. H: 2msec/div.
(56) Foot of R3537 (MVP)
V: 2V/div. H: 2msec/div.



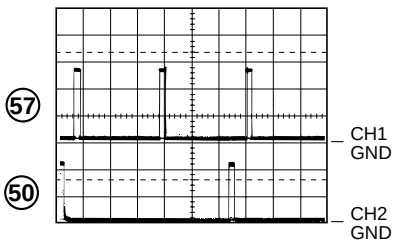
(50) Foot of R3270 (MHP)
V: 2V/div. H: 10µsec/div.
(60) Foot of R33605 (DB_Y1)
V: 0.5V/div. H: 10µsec/div.



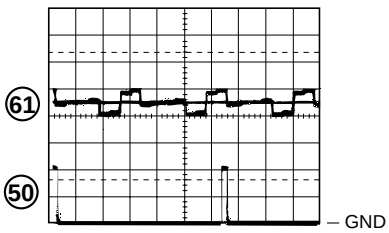
(50) Foot of R3270 (MHP)
V: 2V/div. H: 10µsec/div.
(53) Foot of R3251 (R-Y2)
V: 1V/div. H: 10µsec/div.



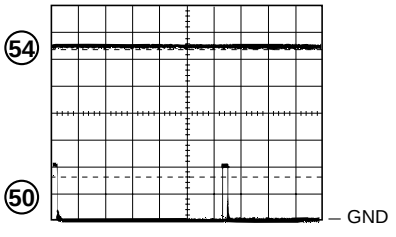
(50) Foot of R3270 (MHP)
V: 2V/div. H: 10µsec/div.
(57) Foot of R3534 (DH_PRO)
V: 2V/div. H: 10µsec/div.



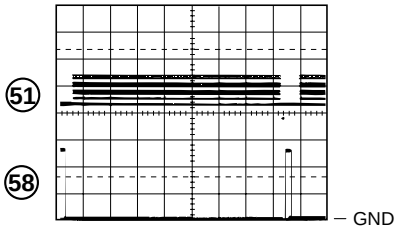
(50) Foot of R3270 (MHP)
V: 2V/div. H: 10µsec/div.
(61) Foot of R3606 (DR_Y1)
V: 0.5V/div. H: 10µsec/div.

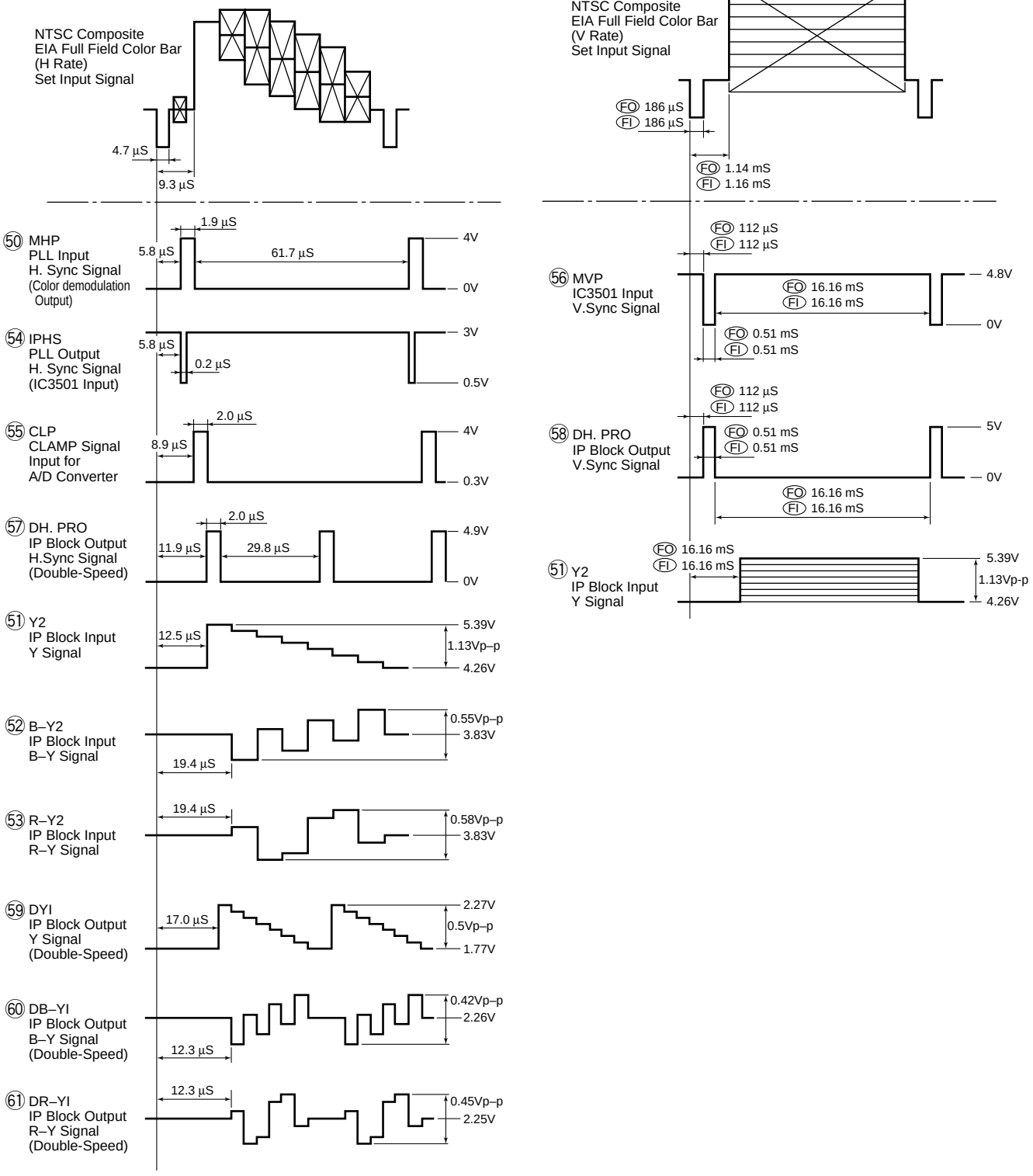


(50) Foot of R3270 (MHP)
V: 2V/div. H: 10µsec/div.
(54) Foot of R3256 (IPHS)
V: 1V/div. H: 10µsec/div.

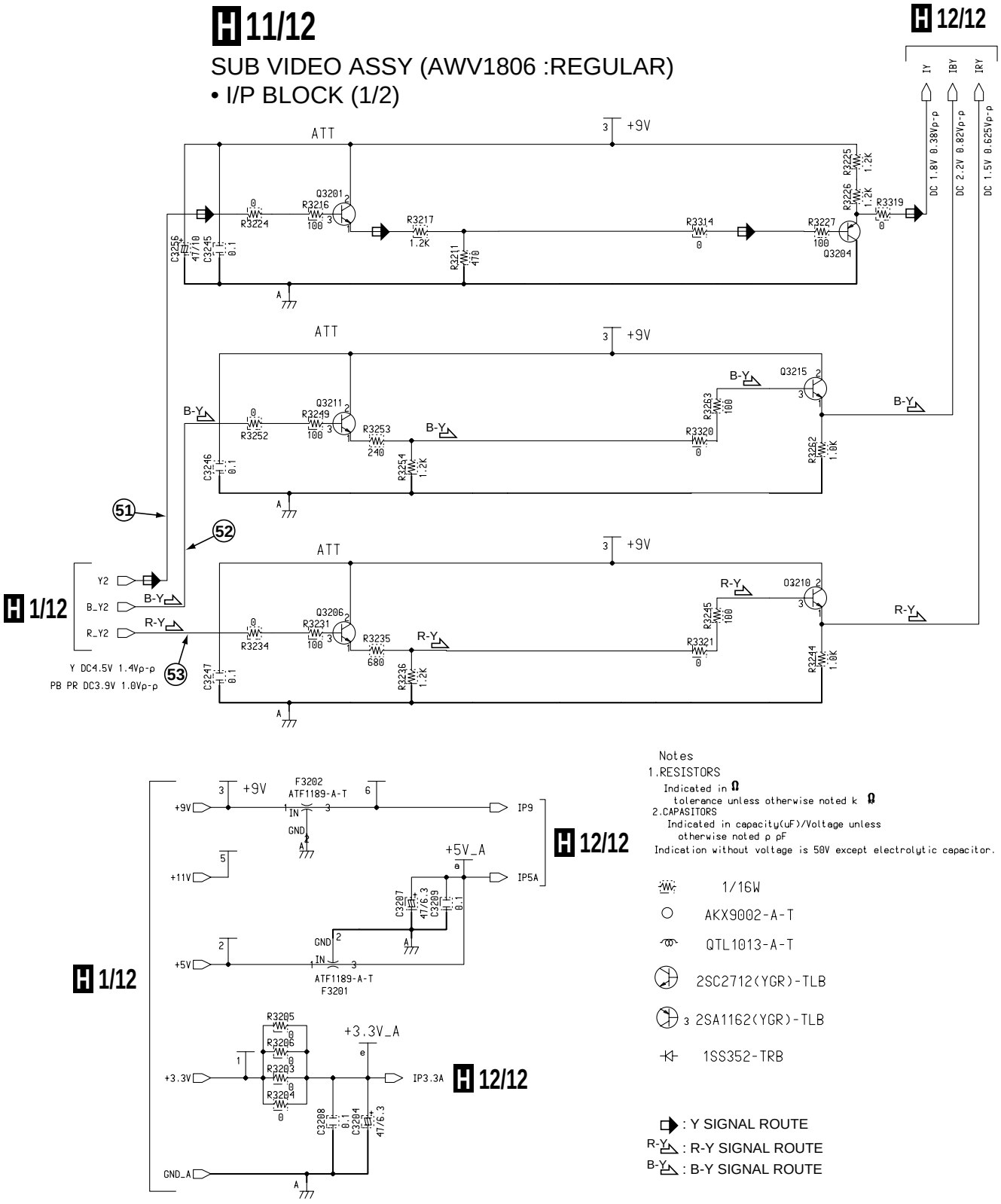


(51) Foot of R3247 (Y2)
V: 1V/div. H: 2msec/div.
(58) Foot of R3535 (DV_PRO)
V: 2V/div. H: 2msec/div.




NTSC Composite
EIA Full Field Color Bar
(H Rate)
Set Input Signal
4.7 µS
9.3 µS
NTSC Composite
EIA Full Field Color Bar
(V Rate)
Set Input Signal
FO 186 µS
FI 186 µS
FO 1.14 mS
FI 1.16 mS
50 MHP
PLL Input
H. Sync Signal
(Color demodulation Output)
1.9 µS
5.8 µS
61.7 µS
4V
0V
54 IPHS
PLL Output
H. Sync Signal
(IC3501 Input)
5.8 µS
0.2 µS
3V
0.5V
55 CLP
CLAMP Signal
Input for
A/D Converter
2.0 µS
8.9 µS
4V
0.3V
57 DH. PRO
IP Block Output
H.Sync Signal
(Double-Speed)
2.0 µS
11.9 µS
29.8 µS
4.9V
0V
51 Y2
IP Block Input
Y Signal
12.5 µS
5.39V
1.13Vp–p
4.26V
52 B–Y2
IP Block Input
B–Y Signal
19.4 µS
0.55Vp–p
3.83V
53 R–Y2
IP Block Input
R–Y Signal
19.4 µS
0.58Vp–p
3.83V
59 DYI
IP Block Output
Y Signal
(Double-Speed)
17.0 µS
2.27V
0.5Vp–p
1.77V
60 DB–YI
IP Block Output
B–Y Signal
(Double-Speed)
12.3 µS
0.42Vp–p
2.26V
61 DR–YI
IP Block Output
R–Y Signal
(Double-Speed)
12.3 µS
0.45Vp–p
2.25V
FO 112 µS
FI 112 µS
56 MVP
IC3501 Input
V.Sync Signal
FO 16.16 mS
FI 16.16 mS
4.8V
0V
FO 0.51 mS
FI 0.51 mS
FO 112 µS
FI 112 µS
58 DH. PRO
IP Block Output
V.Sync Signal
FO 0.51 mS
FI 0.51 mS
5V
0V
FO 16.16 mS
FI 16.16 mS
FO 16.16 mS
FI 16.16 mS
51 Y2
IP Block Input
Y Signal
5.39V
1.13Vp-p
4.26V

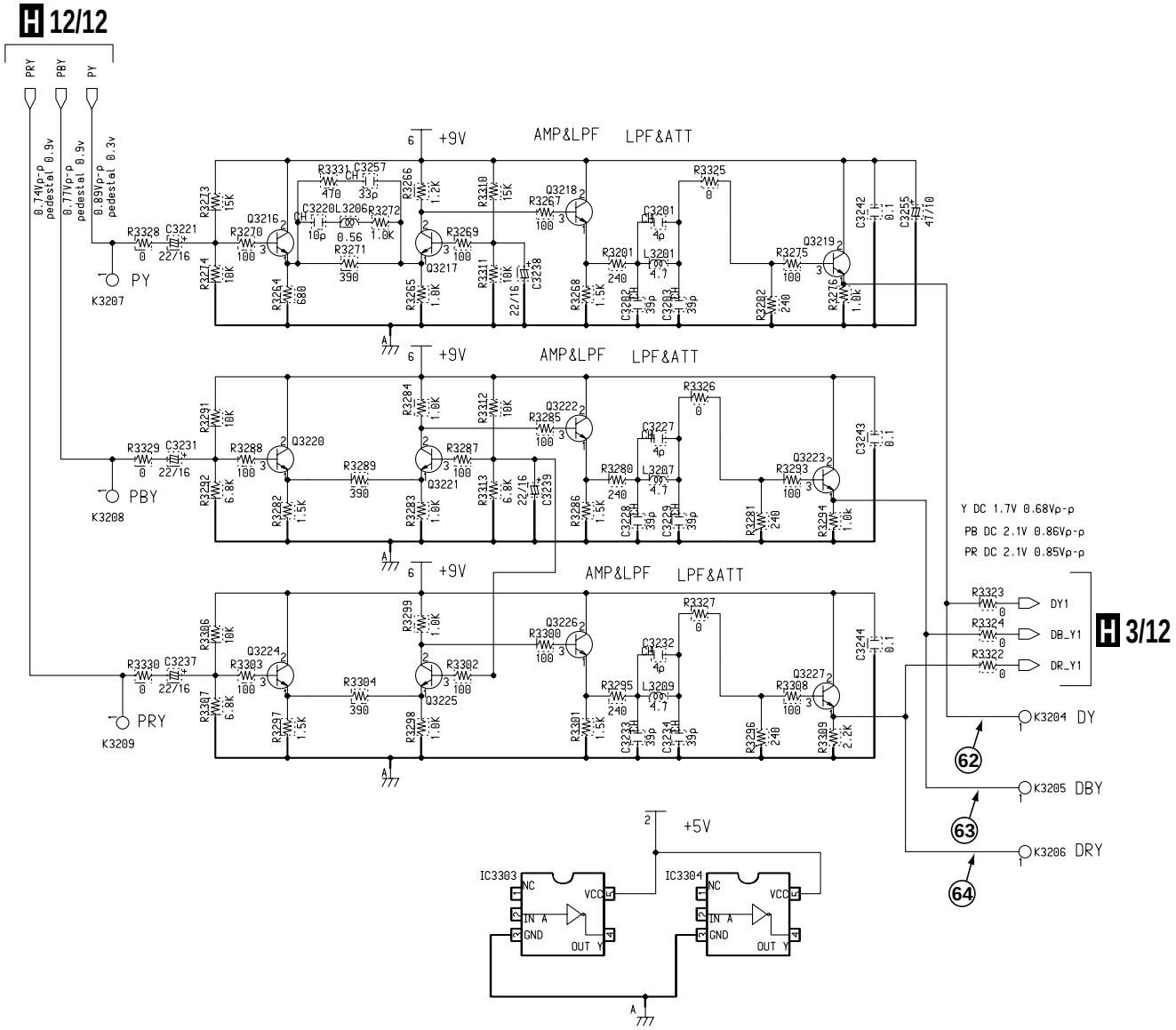
3.27 SUB VIDEO ASSY (11/12) (REGULAR ONLY)



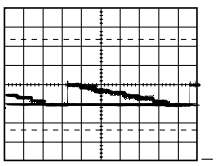
Notes
1.RESISTORS
Indicated in Ω
tolerance unless otherwise noted k Ω
2.CAPASITORS
Indicated in capacity(uF)/Voltage unless otherwise noted p pF
Indication without voltage is 50V except electrolytic capacitor.

1/16W
AKX9002-A-T
QTL1013-A-T
2SC2712(YGR)-TLB
2SA1162(YGR)-TLB
1SS352-TRB

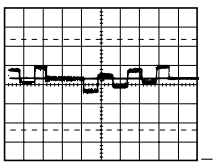
: Y SIGNAL ROUTE
R-Y : R-Y SIGNAL ROUTE
B-Y : B-Y SIGNAL ROUTE



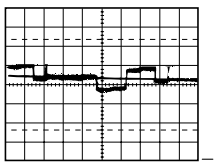
62 **K3204 (DY)**
V: 0.5V/div. H: 1µsec/div.



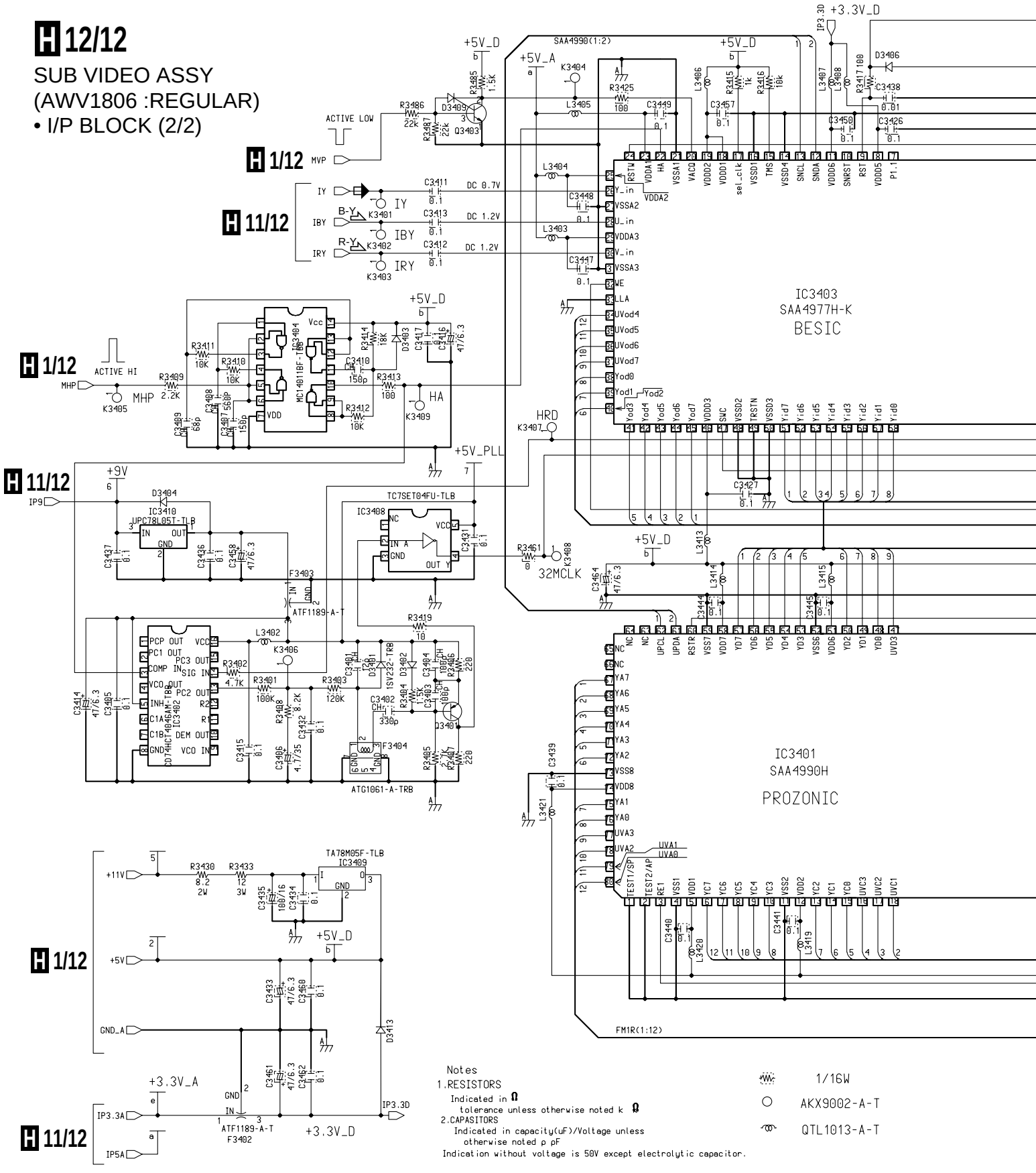
63 **K3205 (DB-Y1)**
V: 0.5V/div. H: 1µsec/div.

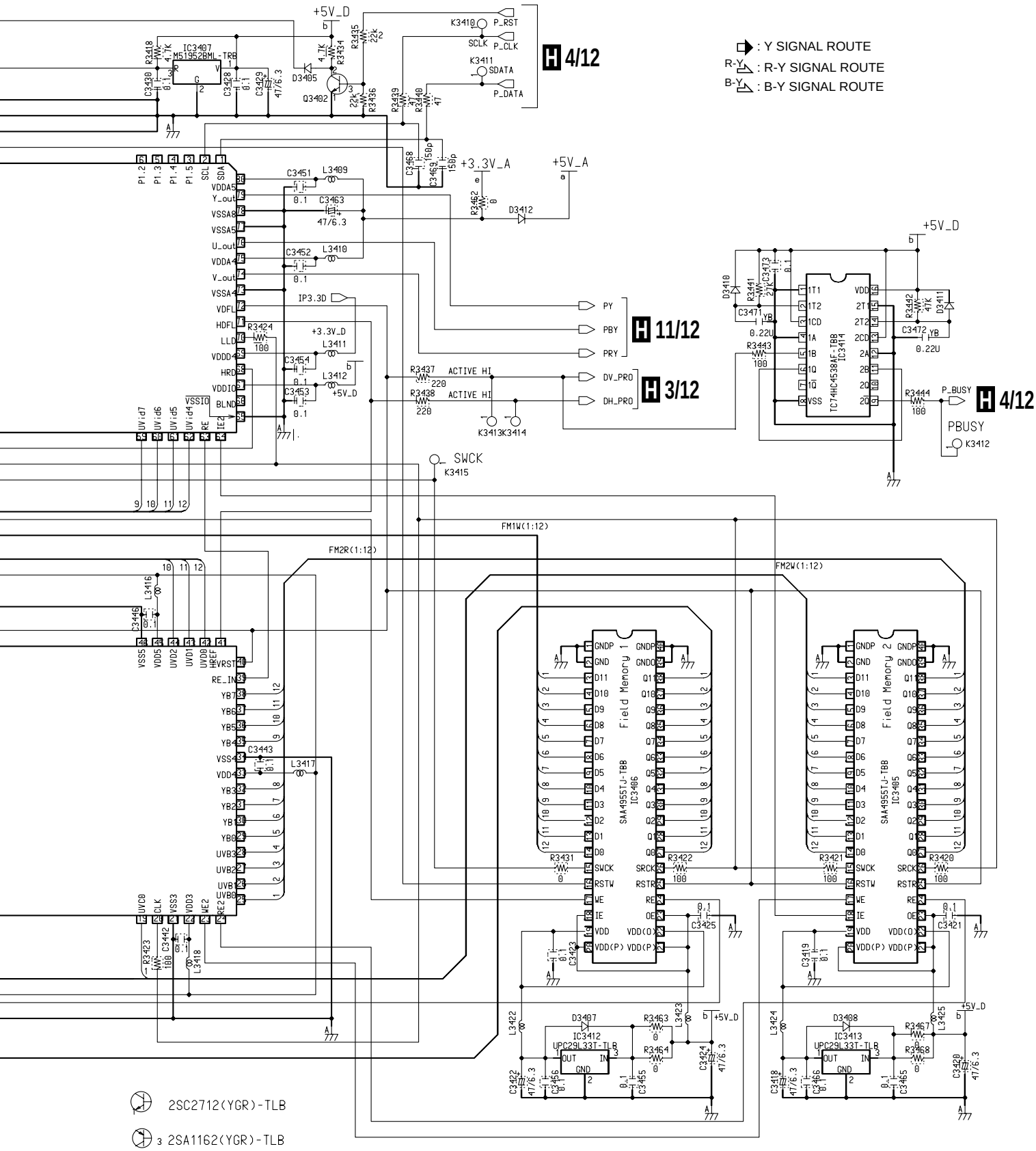


64 **K3206 (DR-Y1)**
V: 0.5V/div. H: 1µsec/div.

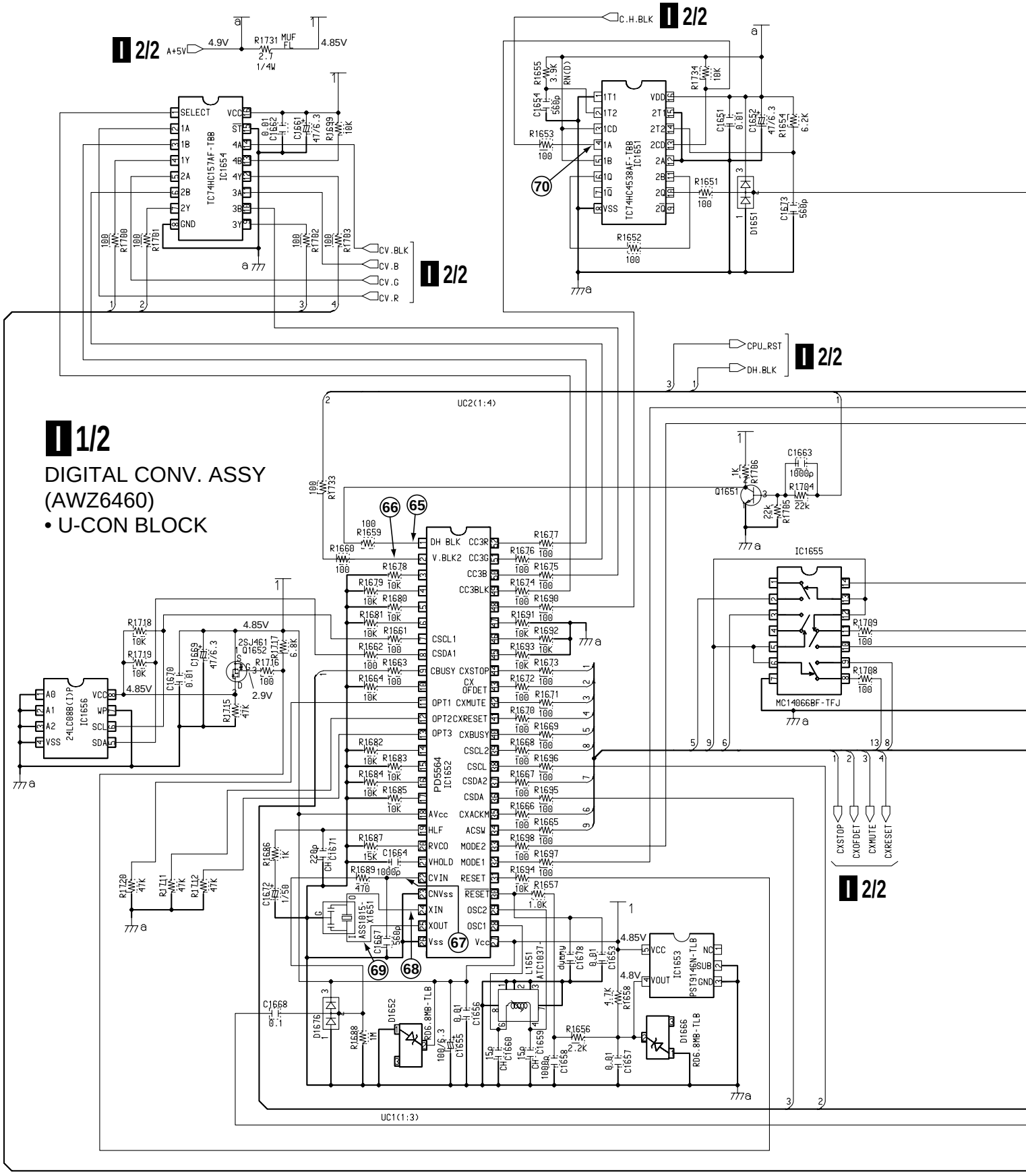


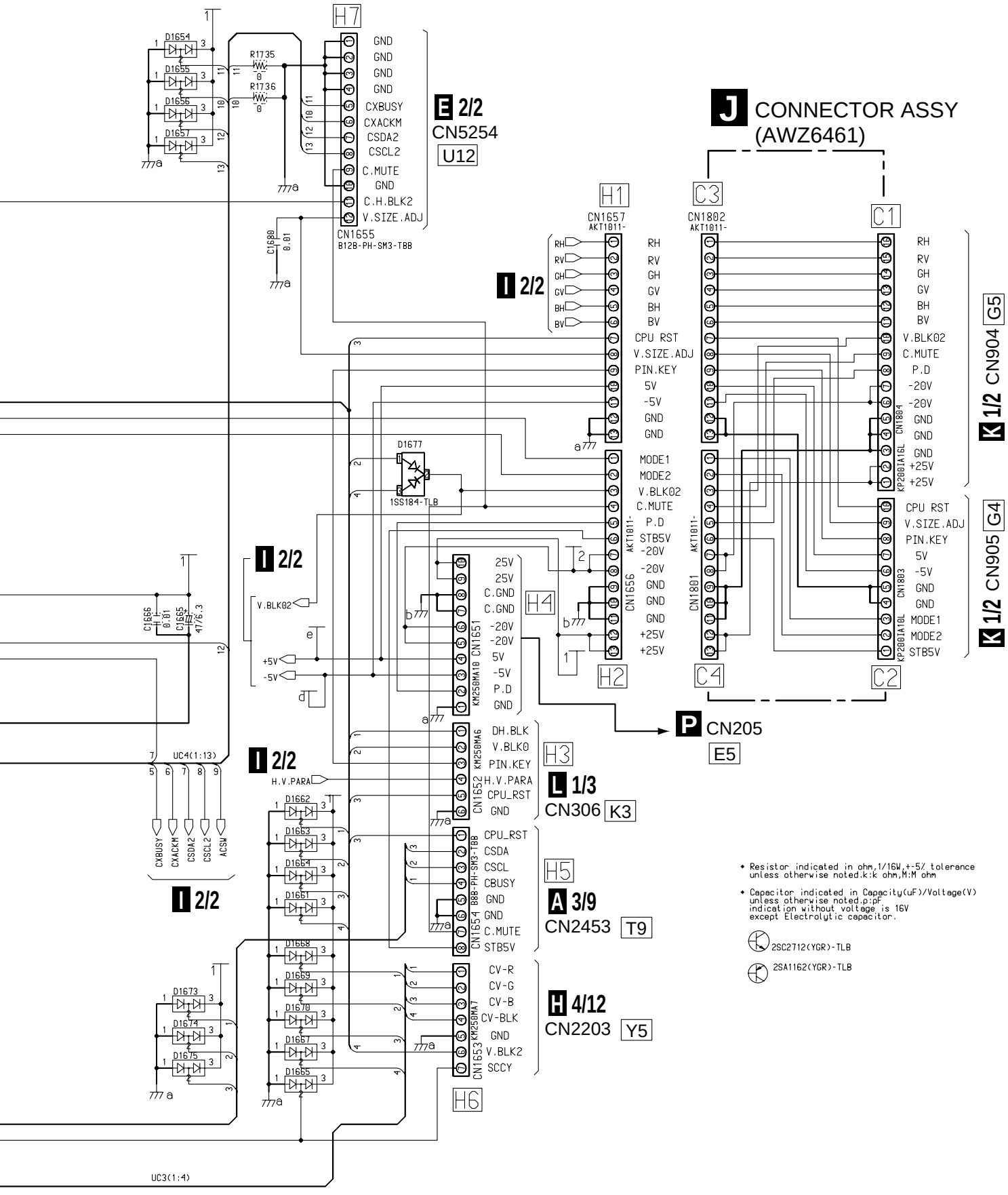
3.28 SUB VIDEO ASSY (12/12) (REGULAR ONLY)



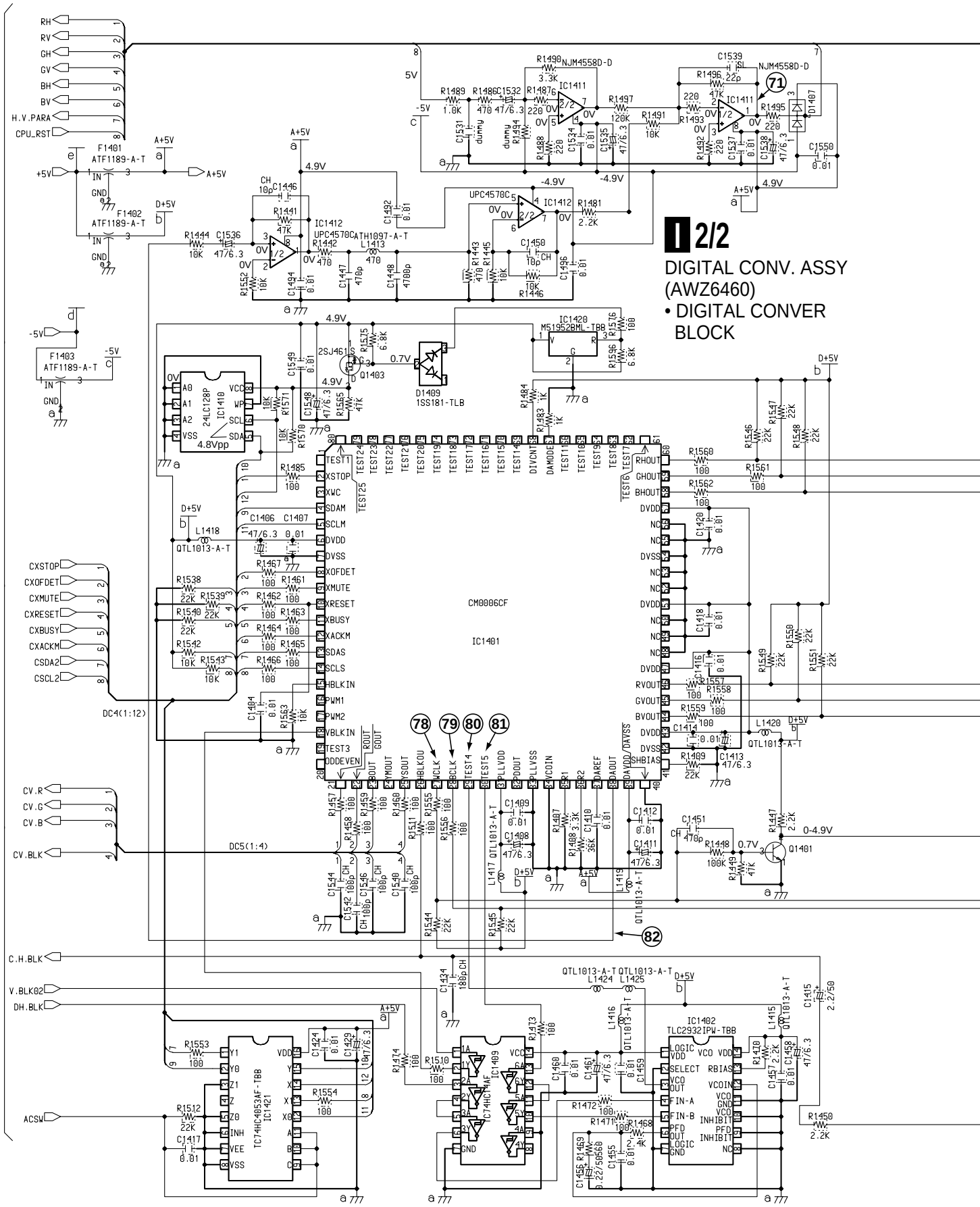

: Y SIGNAL ROUTE
R-Y : R-Y SIGNAL ROUTE
B-Y : B-Y SIGNAL ROUTE
H 4/12
H 11/12
H 3/12
H 4/12
H 12/12
PY
PBY
PRY
DV_PRO
DH_PRO
P_BUSY
PBUSY
P_RST
SCLK
P_CLK
SDATA
P_DATA
SWCK
FM1W(1:12)
FM2R(1:12)
FM2W(1:12)
IP3.3D
+5V_D
+3.3V_A
+5V_A
ACTIVE HI
2SC2712(YGR)-TLB
2SA1162(YGR)-TLB
1SS352-TRB

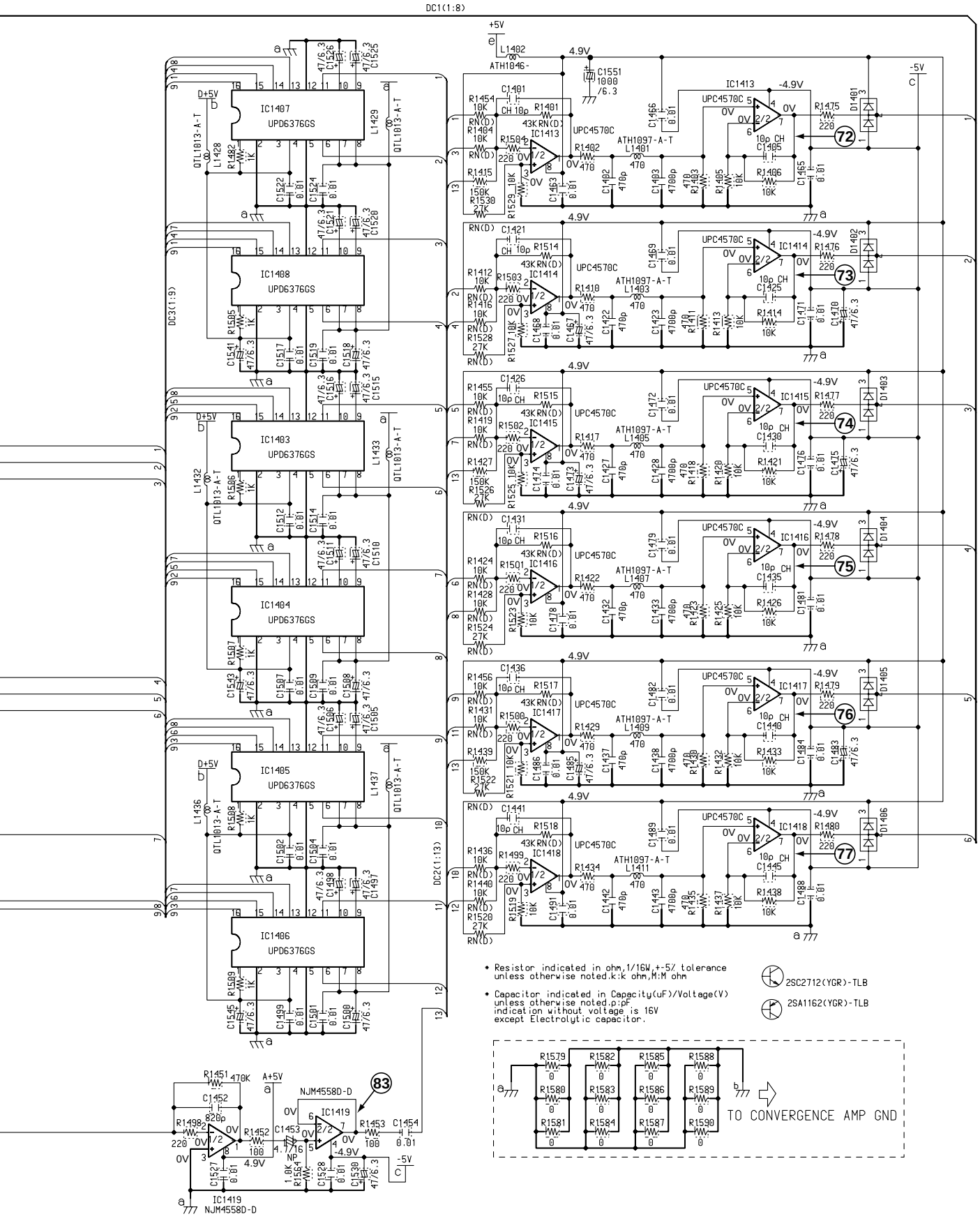
3.29 DIGITAL CONV. (1/2) and CONNECTOR ASSYS




J CONNECTOR ASSY (AWZ6461)
E 2/2
CN5254
U12
I 2/2
K 1/2 CN904 G5
K 1/2 CN905 G4
P CN205
E5
L 1/3
CN306 K3
A 3/9
CN2453 T9
H 4/12
CN2203 Y5
H1
H2
H3
H4
H5
H6
H7
C1
C2
C3
C4
CN1655
B12B-PH-SM3-TBB
CN1657
CN1656
CN1651
CN1652
CN1654
CN1653
CN1801
CN1802
CN1803
CN1804
1SS184-TLB
2SC2712(YGR)-TLB
2SA1162(YGR)-TLB
• Resistor indicated in ohm,1/16W,+-5% tolerance unless otherwise noted.k:k ohm,M:M ohm
• Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF. indication without voltage is 16V except Electrolytic capacitor.

3.30 DIGITAL CONV. ASSY (2/2)

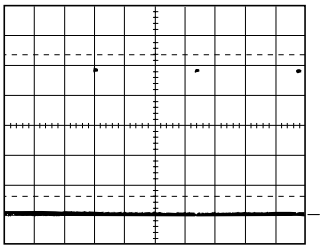



DC1(1:8)
DC3(1:9)
DC2(1:13)
+5V
-5V
4.9V
IC1407 UPD6376GS
IC1408 UPD6376GS
IC1403 UPD6376GS
IC1404 UPD6376GS
IC1405 UPD6376GS
IC1406 UPD6376GS
IC1413 UPC4570C
IC1414 UPC4570C
IC1415 UPC4570C
IC1416 UPC4570C
IC1417 UPC4570C
IC1418 UPC4570C
IC1419 NJM4558D-D
L1402 ATH1046-
L1401 ATH1097-A-T
L1403 ATH1097-A-T
L1405 ATH1097-A-T
L1407 ATH1097-A-T
L1409 ATH1097-A-T
L1411 ATH1097-A-T
L1428 QTL1013-A-T
L1429 QTL1013-A-T
L1432 QTL1013-A-T
L1433 QTL1013-A-T
L1436 QTL1013-A-T
L1437 QTL1013-A-T
D1401
D1402
D1403
D1404
D1405
D1406
72
73
74
75
76
77
83
• Resistor indicated in ohm,1/16W,+-5% tolerance unless otherwise noted.k:k ohm,M:M ohm
• Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF indication without voltage is 16V except Electrolytic capacitor.
2SC2712(YGR)-TLB
2SA1162(YGR)-TLB
TO CONVERGENCE AMP GND

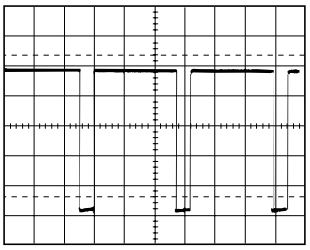
G DIGITAL CONV. ASSY

Input signal
Video signal : EIA full color-bar
Picture quality : Standard
Range :DC range (Unless otherwise noted)

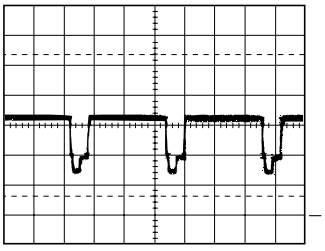
65 **IC1652 pin 1 (DH. BLK input)**
V: 1V/div. H: 10µsec/div.



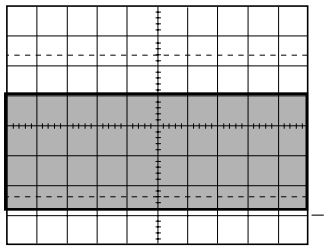
66 **IC1652 pin 2 (V. BLKØ input)**
V: 1V/div. H: 5msec/div.



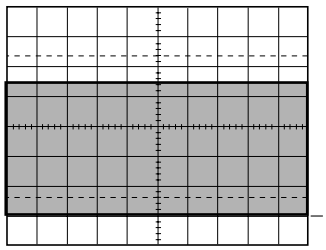
67 **IC1652 pin 22 (Y input)**
V: 1V/div. H: 20µsec/div.



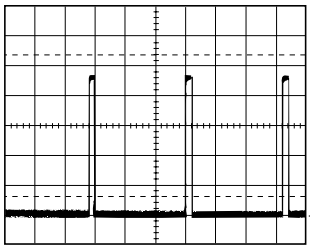
68 **IC1652 pin 24 (X input)**
V: 1V/div. H: 100µsec/div.



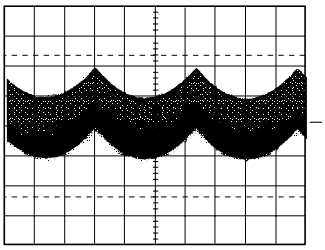
69 **IC1652 pin 25 (X output)**
V: 1V/div. H: 100µsec/div.



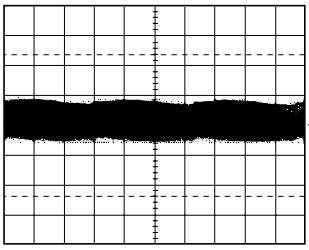
70 **IC1651 pin 4 (CH. BLK input)**
V: 1V/div. H: 100µsec/div.



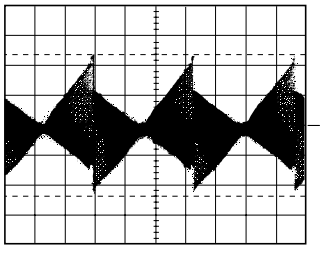
71 **IC1411 pin 1 (DF output)**
V: 2V/div. H: 5msec/div.



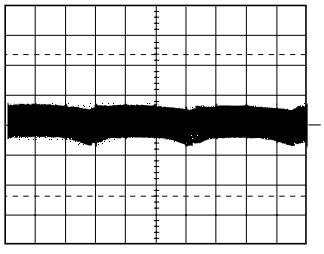
72 **IC1413 pin 7 (RH output)**
V: 1V/div. H: 5msec/div.



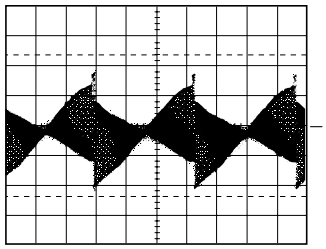
73 **IC1414 pin 7 (RV output)**
V: 1V/div. H: 5msec/div.



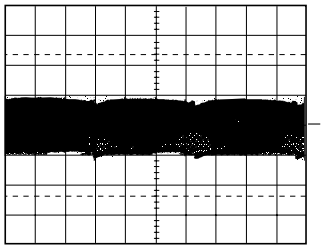
74 **IC1415 pin 7 (GH output)**
V: 1V/div. H: 5msec/div.



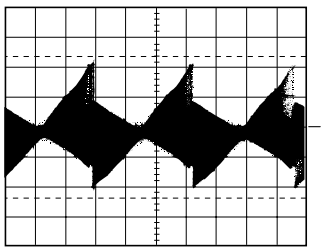
75 **IC1416 pin 7 (GV output)**
V: 1V/div. H: 5msec/div.



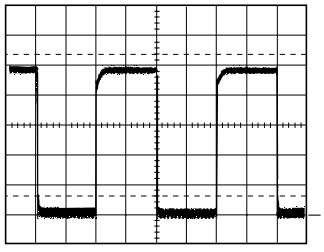
76 **IC1417 pin 7 (BH output)**
V: 1V/div. H: 5msec/div.



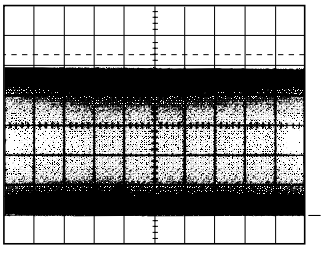
77 **IC1418 pin 7 (BV output)**
V: 1V/div. H: 5msec/div.



78 **IC1401 pin 27 (WCLK for D/A)**
V: 1V/div. H: 1µsec/div.

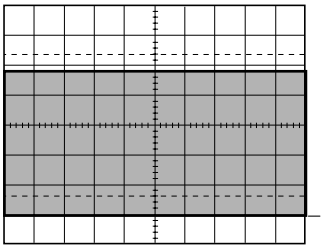


79 **IC1401 pin 28 (BCLK for D/A)**
V: 1V/div. H: 1µsec/div.

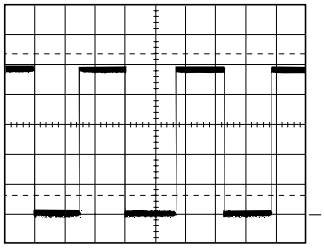


I 2/2 DIGITAL CONV. ASSY (2/2)

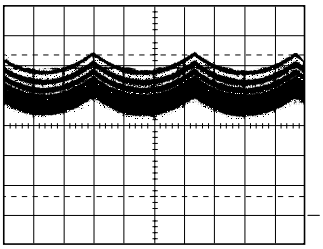
80 **IC1401 pin 29 (PLL CLK (35MHz))**
V: 1V/div. H: 1µsec/div.



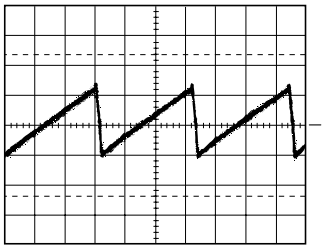
81 **IC1401 pin 30**
(Output after PLL division)
V: 1V/div. H: 1µsec/div.



82 **IC1401 pin 38 (DF output)**
V: 0.5V/div. H: 5msec/div.



83 **IC1419 pin 7 (For H pulse cancel)**
V: 1V/div. H: 10µsec/div.



IC1401 (CM0006CF)

Pin No.	Voltage (V)	Pin No.	Voltage (V)	Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	4.9	21	0	41	1.2	61	4.9
2	4.85	22	0	42	0	62	4.9
3	0	23	0	43	4.9	63	4.9
4	4.8Vpp	24	0	44	4.9Vpp	64	4.9
5	4.8Vpp	25	0	45	4.9Vpp	65	4.9
6	4.9	26	4.6Vpp	46	4.9Vpp	66	4.9
7	0	27	4.8Vpp	47	4.9	67	0
8	4.85	28	4.8Vpp	48	0	68	4.8
9	4.8	29	4.8Vpp	49	0	69	4.9
10	4.8	30	4.8Vpp	50	0	70	4.9
11	4.8Vpp	31	4.9	51	4.9	71	4.9
12	4.8Vpp	32	0	52	0	72	4.9
13	4.8Vpp	33	0	53	0	73	4.9
14	4.8Vpp	34	0	54	0	74	4.9
15	0	35	1.2	55	0	75	4.9
16	2.4	36	0	56	0	76	4.9
17	2.4	37	3.2	57	4.9	77	4.9
18	4.9Vpp	38	1Vpp	58	4.9Vpp	78	4.9
19	4.9	39	4.9	59	4.9Vpp	79	4.9
20	4.9	40	0	60	4.9Vpp	80	4.9

IC1421
(TC74HC4053AF)

Pin No.	Voltage (V)
1	4.8Vpp
2	4.8Vpp
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	4.8Vpp
13	4.8Vpp
14	4.8Vpp
15	4.8Vpp
16	4.9

IC1403,IC1405,
IC1407
(UPD6376GS)

Pin No.	Voltage (V)
1	4.85
2	0
3	0
4	4.9
5	0
6	1.6
7	4.9
8	4.9
9	2.1
10	2.1
11	1.6
12	0
13	2.4
14	2.1
15	2.2
16	2.1

IC1409
(TC74HC14AF)

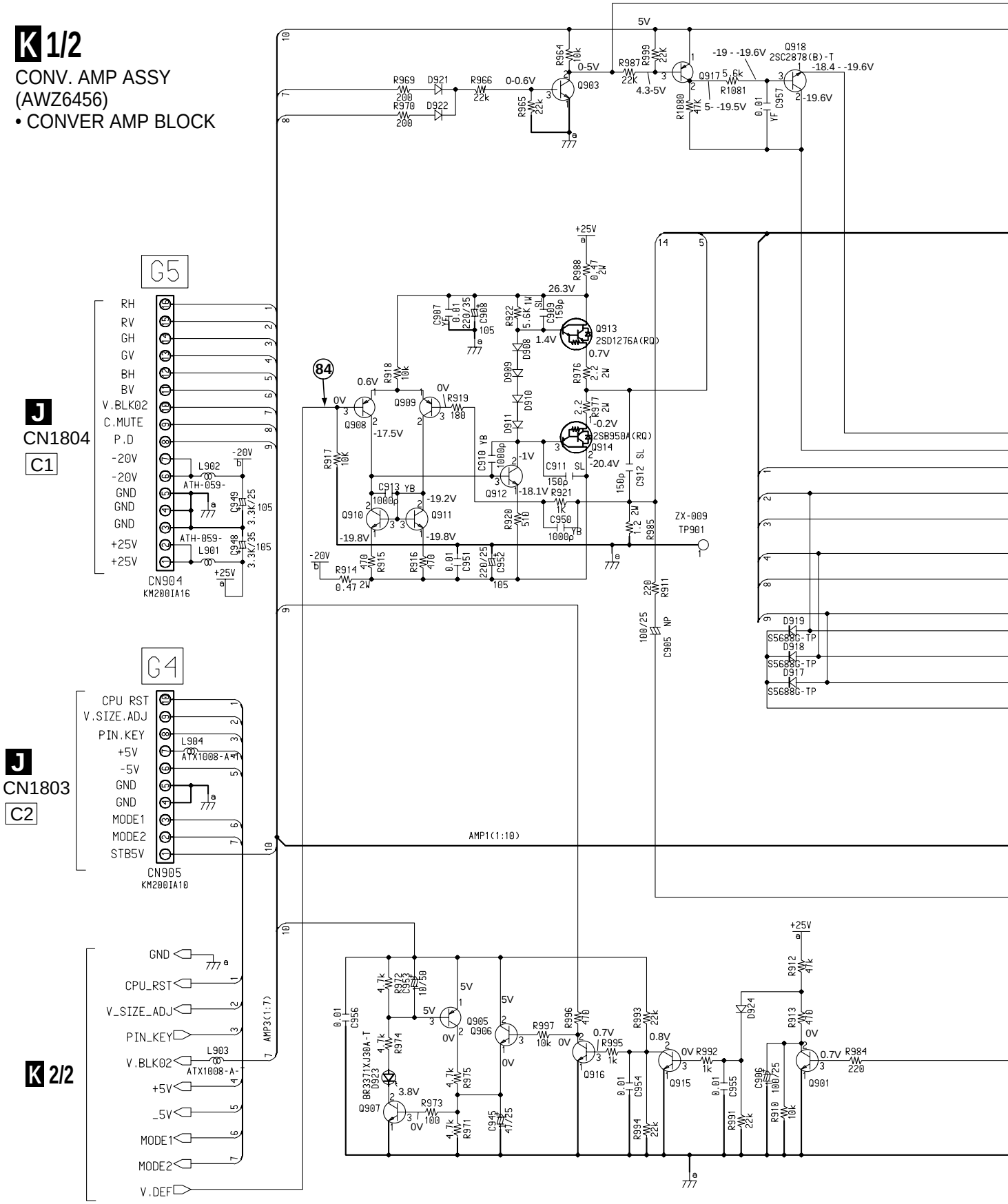
Pin No.	Voltage (V)
1	4.8Vpp
2	4.8Vpp
3	4.8Vpp
4	4.9Vpp
5	4.9Vpp
6	4.9Vpp
7	0
8	0
9	0
10	4.9Vpp
11	4.9Vpp
12	4.9Vpp
13	4.9Vpp
14	4.9

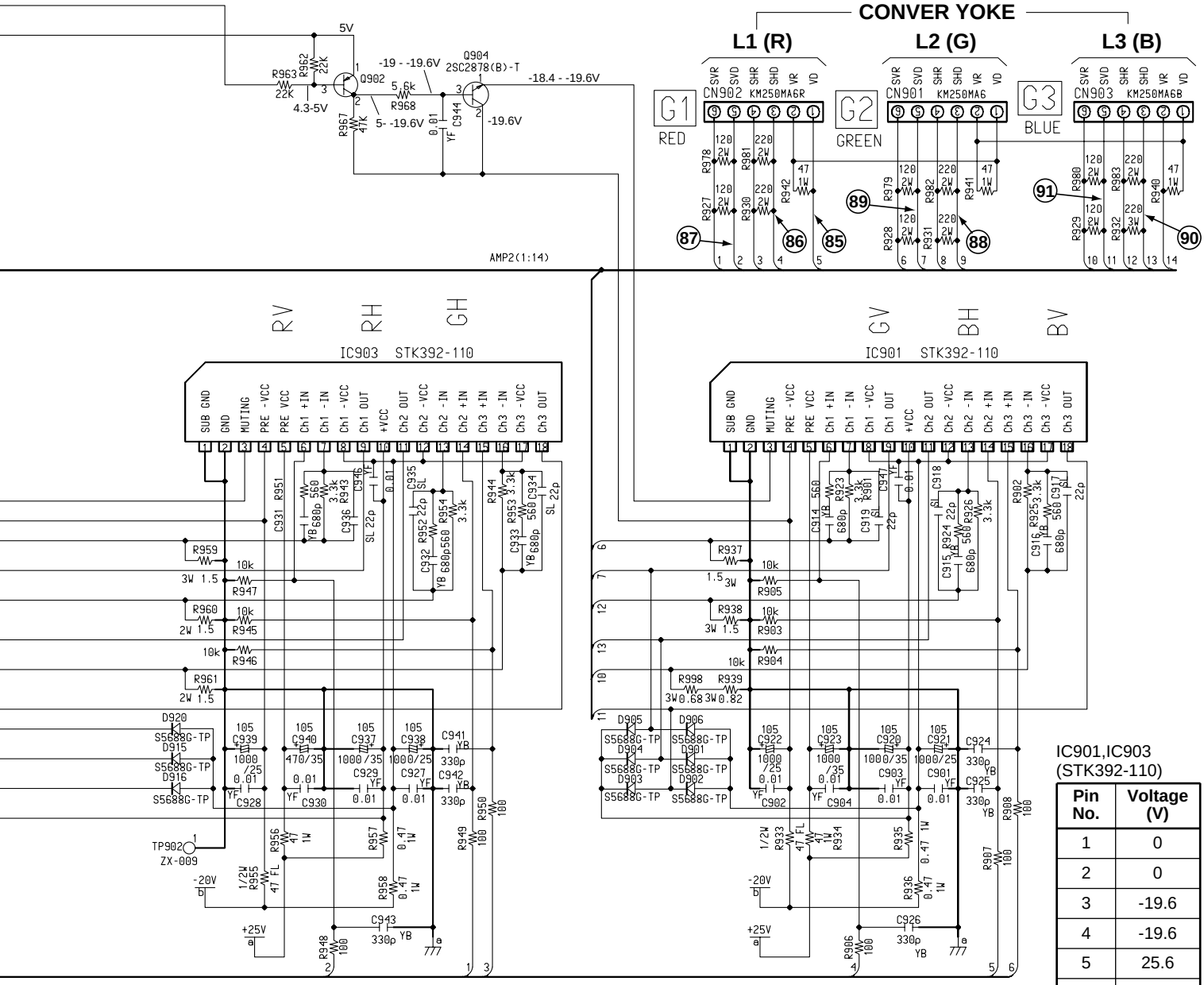
IC1402
(TLC2932IPW)

Pin No.	Voltage (V)
1	4.9
2	0
3	4.8Vpp
4	4.9Vpp
5	4.9Vpp
6	1.8
7	0
8	0
9	0
10	0
11	0
12	1.8
13	3.6
14	4.9

3.31 CONV. AMP ASSY (1/2)

K 1/2
CONV. AMP ASSY
(AWZ6456)
• CONVER AMP BLOCK





Notes

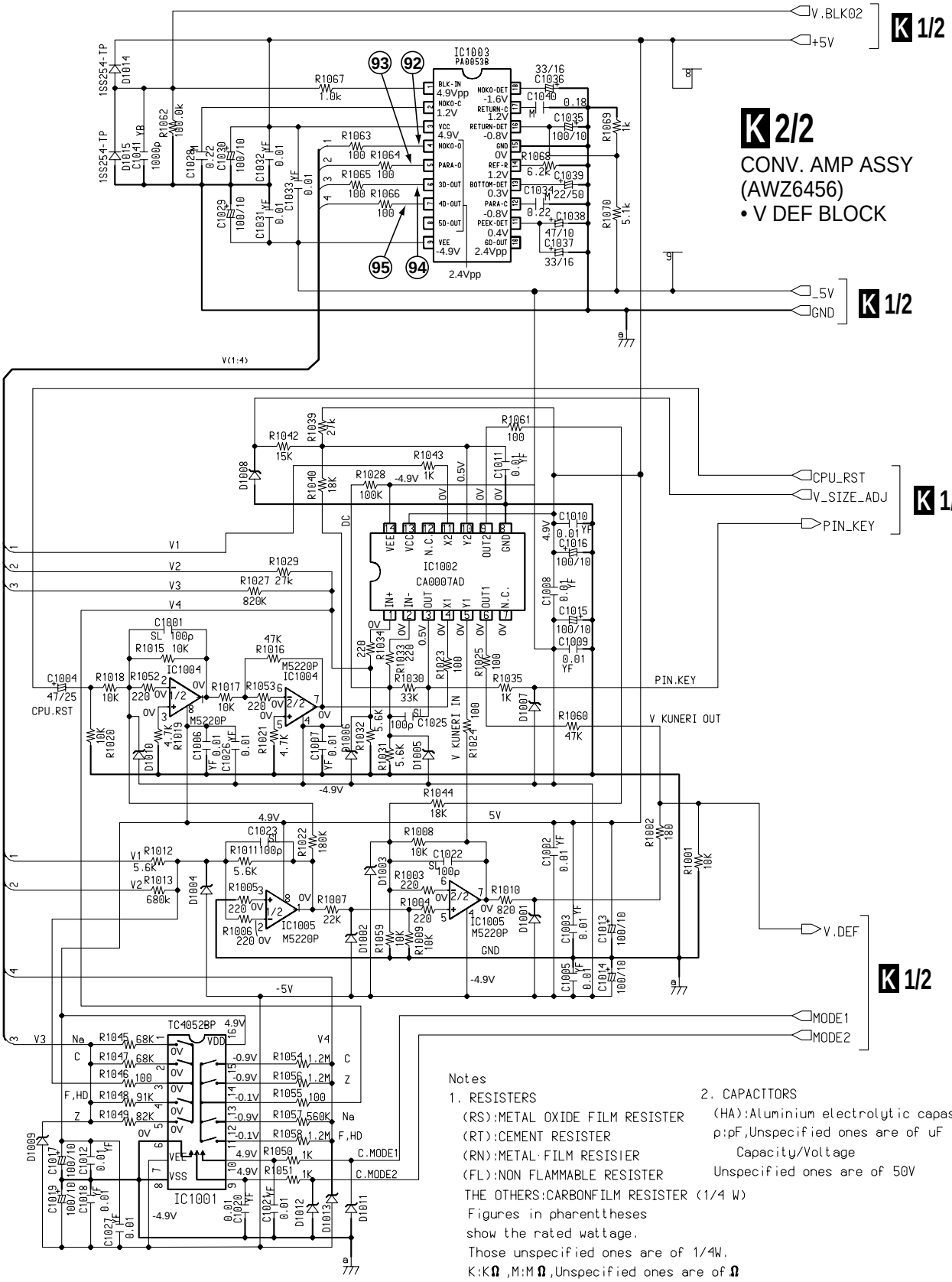
1. RESISTERS
   (RS):METAL OXIDE FILM RESISTER
   (RT):CEMENT RESISTER
   (RN):METAL FILM RESISTER
   (FL):NON FLAMMABLE RESISTER
   THE OTHERS:CARBONFILM RESISTER (1/4 W)
   Figures in pharentheses
   show the rated wattage.
   Those unspecified ones are of 1/4W.
   K:KΩ ,M:MΩ,Unspecified ones are of Ω

2. CAPACITORS
   (HA):Aluminium electrolytic capasitors
   p:pF,Unspecified ones are of uF
   Capacity/Voltage
   Unspecified ones are of 50V

IC901,IC903
(STK392-110)

Pin No.	Voltage (V)
1	0
2	0
3	-19.6
4	-19.6
5	25.6
6	0
7	0
8	-20.3
9	0
10	26.1
11	0
12	-20.3
13	0
14	0
15	0
16	0
17	-20.3
18	0

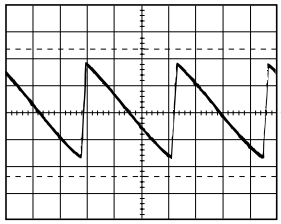
3.32 CONV. AMP ASSY (2/2)



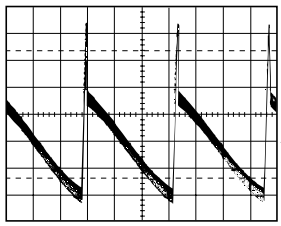
K CONV. AMP ASSY

Input signal
Video signal : EIA full color-bar
Picture quality : Standard
Range :DC range (Unless otherwise noted)

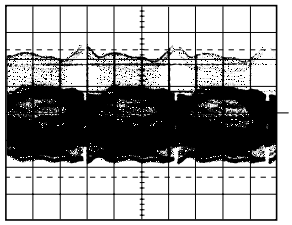
(84) Q908 Base (V. DEF input)
V: 0.5V/div. H: 5msec/div.



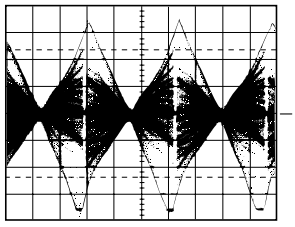
(85) CN902 pin 1 (V. DEF output)
V: 5V/div. H: 5msec/div.



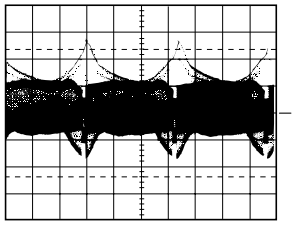
(86) CN902 pin 3 (RH input)
V: 5V/div. H: 5msec/div.



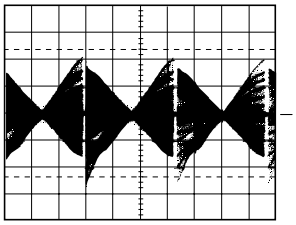
(87) CN902 pin 5 (RV output)
V: 5V/div. H: 5msec/div.



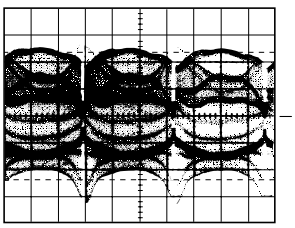
(88) CN901 pin 3 (GH output)
V: 5V/div. H: 5msec/div.



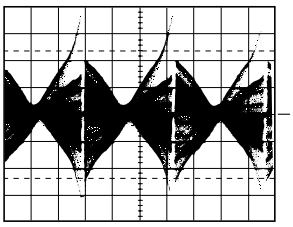
(89) CN901 pin 5 (GV output)
V: 5V/div. H: 5msec/div.



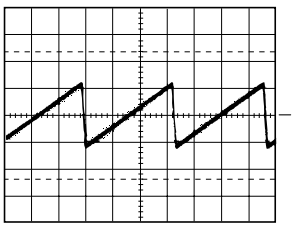
(90) CN903 pin 3 (BH output)
V: 5V/div. H: 5msec/div.



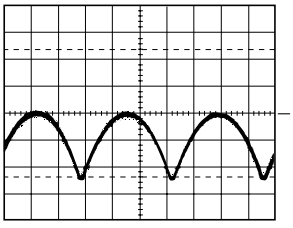
(91) CN903 pin 5 (BV output)
V: 5V/div. H: 5msec/div.



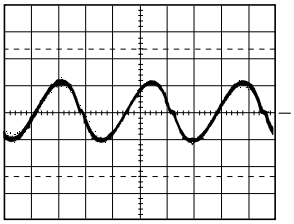
(92) IC1003 pin 4 (V1 output)
V: 1V/div. H: 5msec/div.



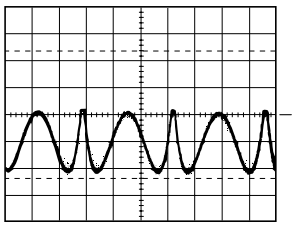
(93) IC1003 pin 5 (V2 output)
V: 1V/div. H: 5msec/div.



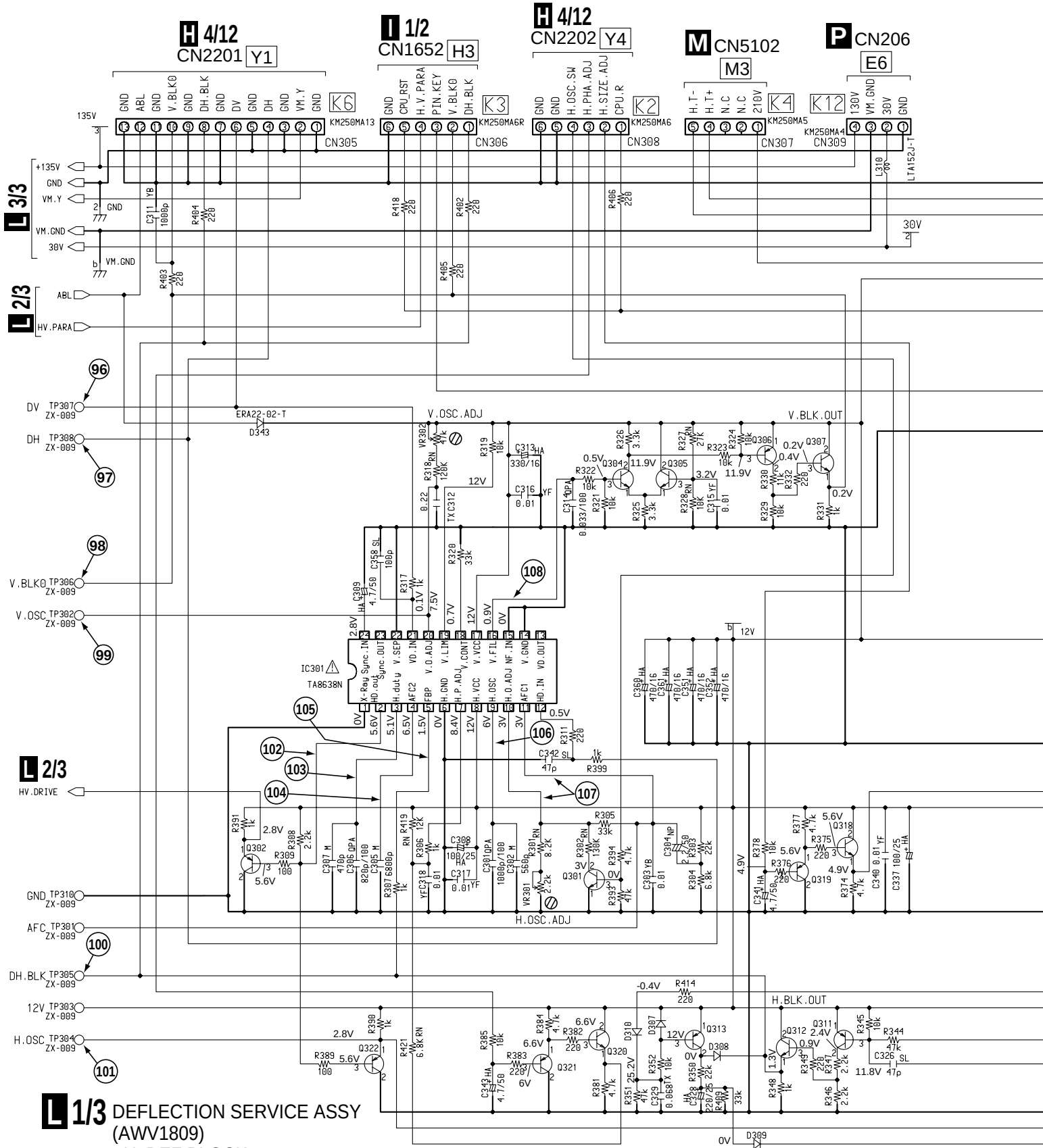
(94) IC1003 pin 6 (V3 output)
V: 1V/div. H: 5msec/div.

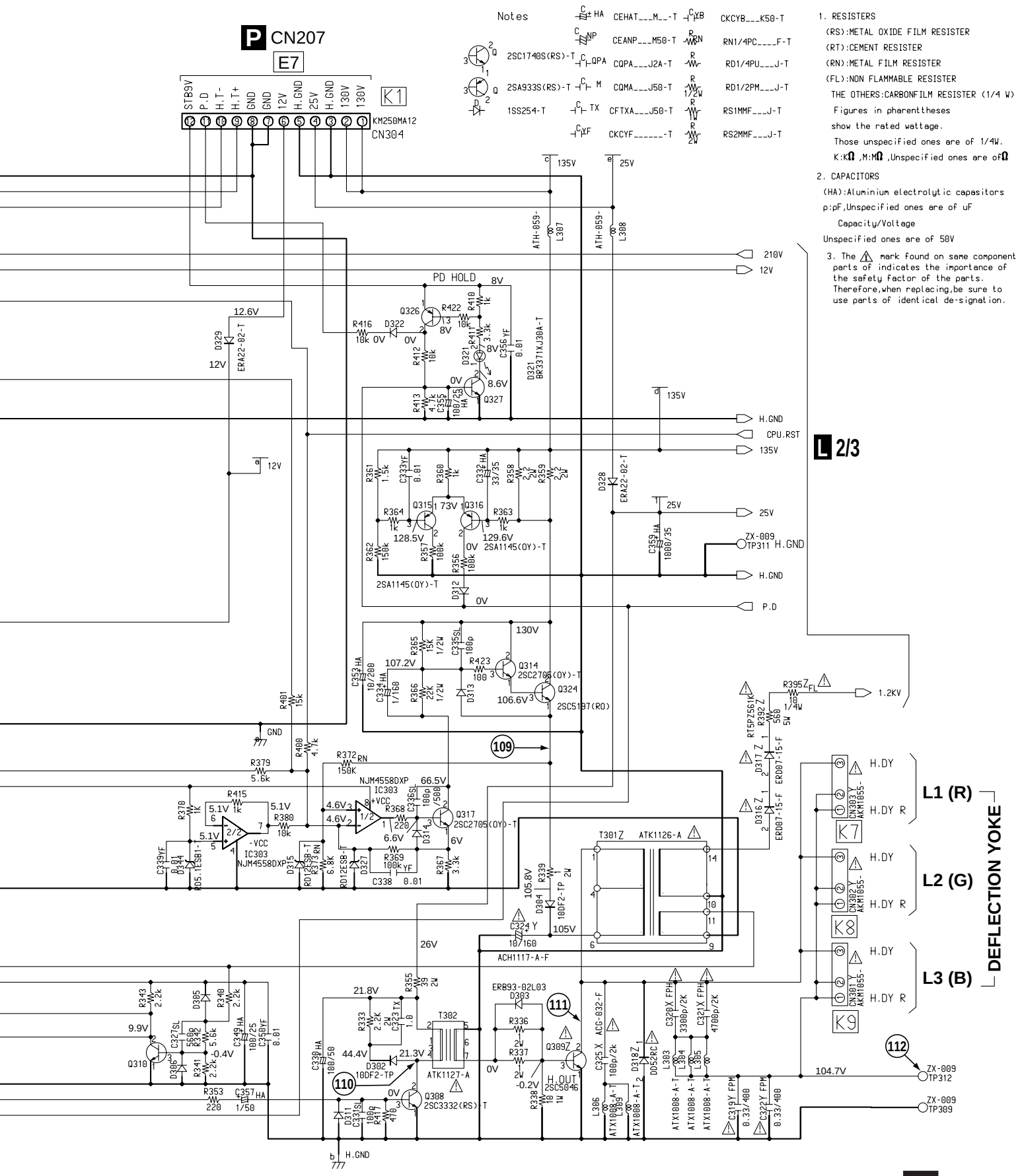


(95) IC1003 pin 7 (V4 output)
V: 1V/div. H: 5msec/div.

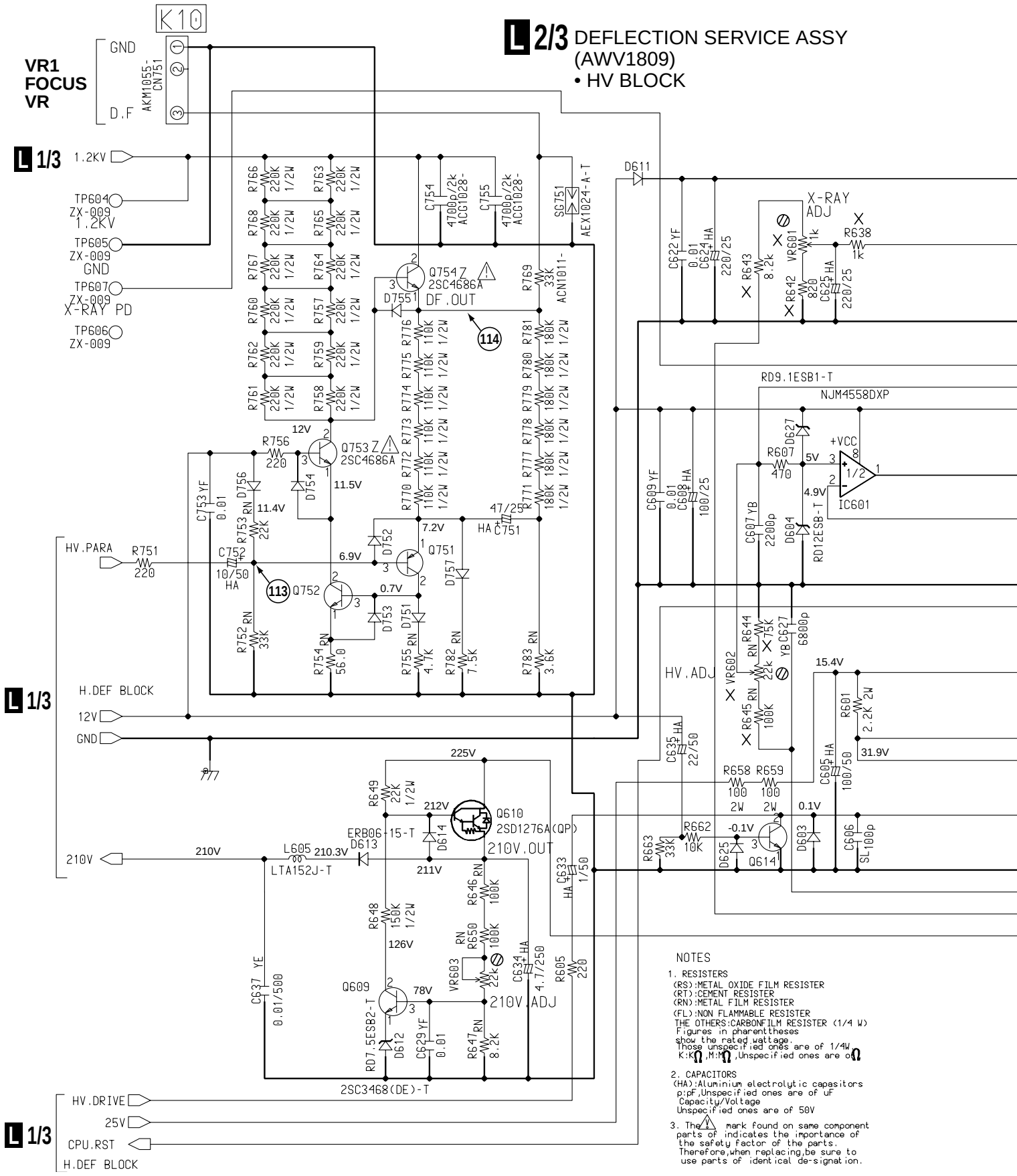


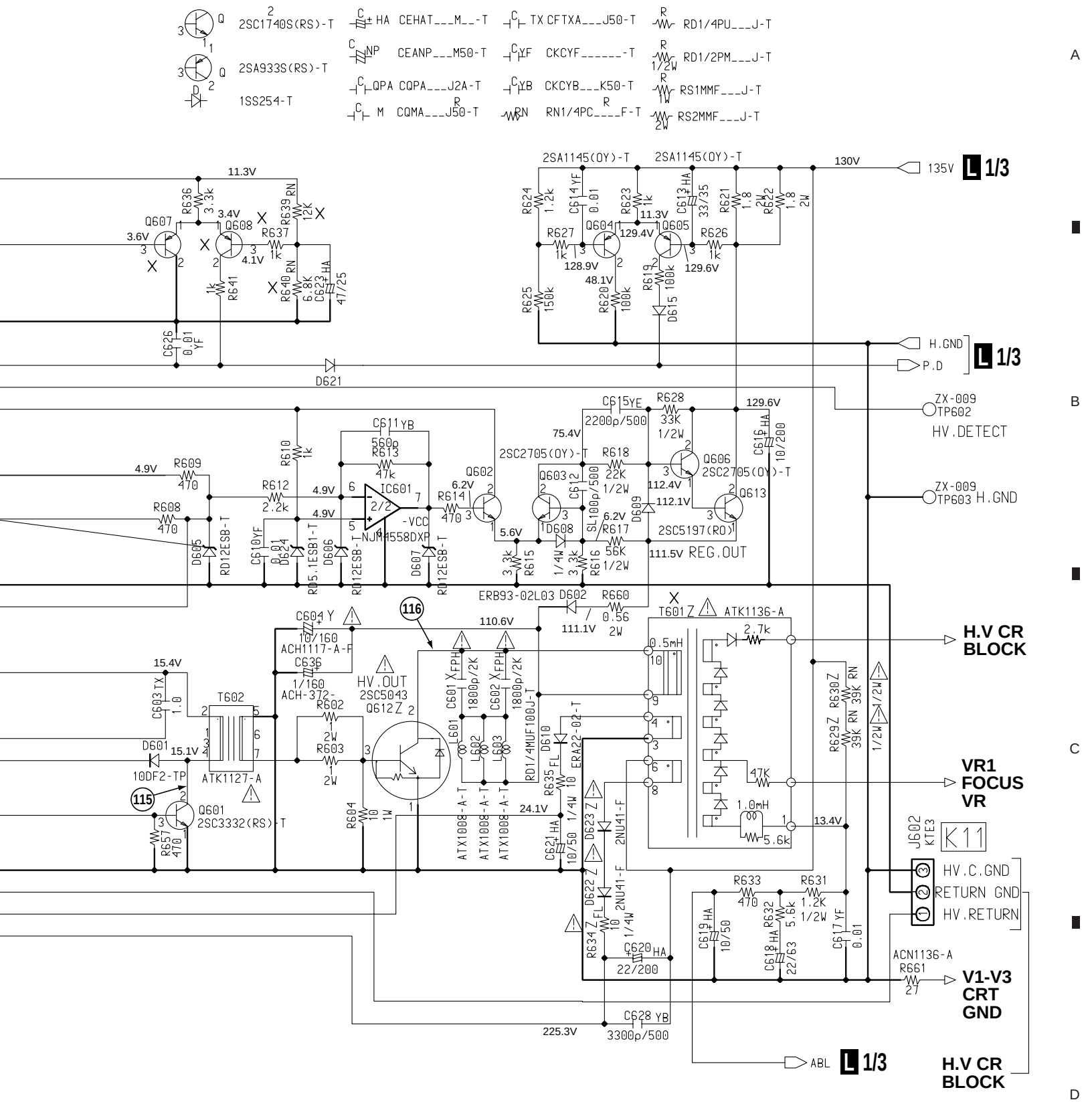
3.33 DEFLECTION SERVICE ASSY (1/3)




P CN207
E7
STB9V
P.D
H.T-
H.T+
GND
GND
12V
H.GND
25V
H.GND
130V
130V
K1
KM250MA12
CN304
Notes
2SC1740S(RS)-T
2SA933S(RS)-T
1SS254-T
CEHAT___M__-T
CEANP___M50-T
CQPA___J2A-T
CQMA___J50-T
CFTXA___J50-T
CKCYF_____-T
CKCYB___K50-T
RN1/4PC____F-T
RD1/4PU___J-T
RD1/2PM___J-T
RS1MMF___J-T
RS2MMF___J-T
1. RESISTERS
(RS):METAL OXIDE FILM RESISTER
(RT):CEMENT RESISTER
(RN):METAL FILM RESISTER
(FL):NON FLAMMABLE RESISTER
THE OTHERS:CARBONFILM RESISTER (1/4 W)
Figures in pharentheses
show the rated wattage.
Those unspecified ones are of 1/4W.
K:kΩ ,M:MΩ ,Unspecified ones are of Ω
2. CAPACITORS
(HA):Aluminium electrolytic capasitors
p:pF,Unspecified ones are of uF
Capacity/Voltage
Unspecified ones are of 50V
3. The ⚠ mark found on same component parts of indicates the importance of the safety factor of the parts. Therefore,when replacing,be sure to use parts of identical de-signation.
135V
25V
ATH-059-
L307
L308
210V
12V
PD HOLD
8V
12.6V
D329
ERA22-02-T
Q326
R422
R410
1k
R416
10k
D322
R412
10k
D321
R411
3.3k
C356YF
0.01
D321
BR3371XJ30A-T
Q327
R413
4.7k
C355
100/25
H.GND
CPU.RST
L 2/3
R361
1.5k
C333YF
0.01
R360
1k
C332
33/35
R358
2.2
R359
2.2
D328
ERA22-02-T
Q315
Q316
R364
R363
1k
128.5V
73V
129.6V
2SA1145(OY)-T
R362
150k
R357
100k
R356
100k
C359
1000/35
ZX-009
TP311 H.GND
P.D
R401
15k
C353
10/200
C334
1/160
R365
15k
1/2W
C335SL
100p
R423
100
Q314
2SC2705(OY)-T
Q324
2SC5197(RO)
D313
R366
22k
1/2W
106.6V
130V
107.2V
R395Z
10
1/4W
1.2KV
RTF5Z561K
R392Z
560
5W
D317Z
D316Z
ERD07-15-F
GND
R400
4.7k
R379
5.6k
R372
150K
109
IC303
NJM4558DXP
66.5V
R415
5.1V 1k
R370
1k
R380
10k
5.1V
4.6V
R368
220
Q317
2SC2705(OY)-T
6.6V
6V
C339YF
0.01
C344
0.01
RD5.1ES-T
D315
RD12ES-T
6.8k
D327
RD12ES-T
C338
0.01
R369
100k YF
R367
3.3k
T301Z
ATK1126-A
H.DY
H.DY R
L1 (R)
L2 (G)
L3 (B)
DEFLECTION YOKE
CN303Y
CN302Y
CN301Y
AKM1055-
K7
K8
K9
R339
2W
D304
10DF2-TP
105.8V
105V
C324Y
10/160
ACH1117-A-F
26V
R343
2.2k
D305
R340
2.2k
9.9V
Q310
C327SL
560p
R342
5.6k
C349HA
100/25
C350YF
0.01
D306
R341
2.2k
-0.4V
R353
220
C357HA
1/50
21.8V
R355
49
2W
C323TX
1.0
T302
ATK1127-A
44.4V
21.3V
D302
10DF2-TP
110
0V
Q308
2SC3332(RS)-T
C330HA
100/50
D311
C331SL
100p
R344
470
H.GND
ERB93-02L03
D303
111
R336
2W
R337
2W
Q309Z
H.OUT
2SC5046
-0.2V
R338
10
1W
C325X
ACC-032-F
100p/2k
D318Z
D52PC
L303
L304
L305
L306
L307
L308
ATX1008-A-T
C320X FPH
3300p/2K
C321X FPH
4700p/2K
C319Y FPM
0.33/400
C322Y FPM
0.33/400
104.7V
112
ZX-009
TP312
ZX-009
TP309

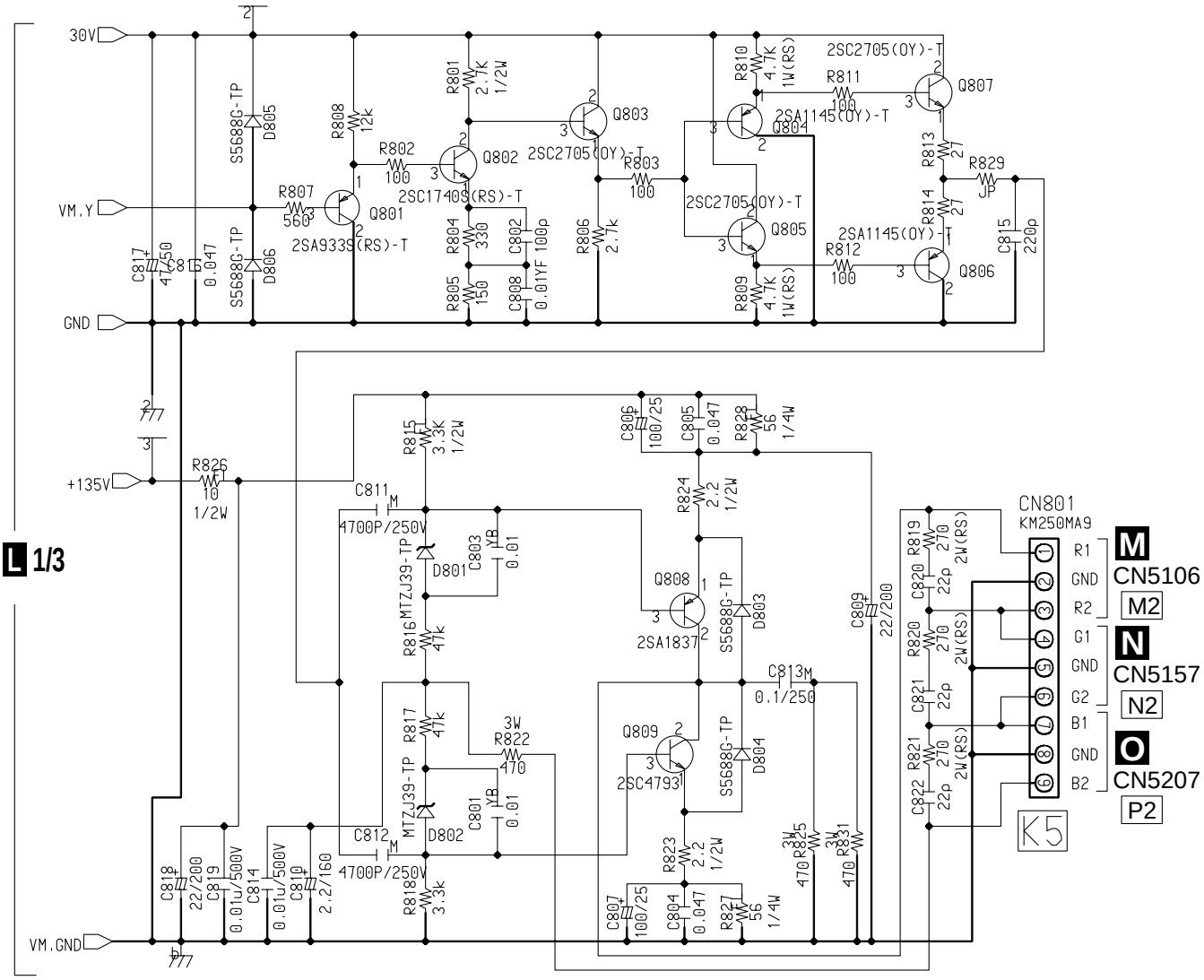
3.34 DEFLECTION SERVICE ASSY (2/3)




Q 2SC1740S(RS)-T
Q 2SA933S(RS)-T
D 1SS254-T
C HA CEHAT___M__-T
C NP CEANP___M50-T
C QPA CQPA___J2A-T
C M CQMA___J50-T
C TX CFTXA___J50-T
C YF CKCYF_____-T
C YB CKCYB___K50-T
R RN RN1/4PC____F-T
R RD1/4PU___J-T
R 1/2W RD1/2PM___J-T
R 1W RS1MMF___J-T
R 2W RS2MMF___J-T
2SA1145(OY)-T
2SA1145(OY)-T
130V
135V
L 1/3
H.GND
P.D
L 1/3
ZX-009 TP602
HV.DETECT
ZX-009 TP603 H.GND
2SC2705(OY)-T
2SC2705(OY)-T
2SC5197(RO)
REG.OUT
NJM4558DXP
ERB93-02L03 D602
T601Z ATK1136-A
H.V CR BLOCK
VR1 FOCUS VR
J602 KTE3 K11
HV.C.GND
RETURN GND
HV.RETURN
ACN1136-A
V1-V3 CRT GND
H.V CR BLOCK
HV.OUT 2SC5043 Q612Z
T602
ATK1127-A
10DF2-TP
Q601 2SC3332(RS)-T
ACH1117-A-F
ACH-372-
ATX1008-A-T
ATX1008-A-T
ATX1008-A-T
2NU41-F
2NU41-F
ERA22-02-T
RD1/4MUF100J-T
ABL
L 1/3
L 2/3

3.35 DEFLECTION SERVICE ASSY (3/3)

L 3/3 DEFLECTION SERVICE ASSY (AWV1809)
• VM BLOCK



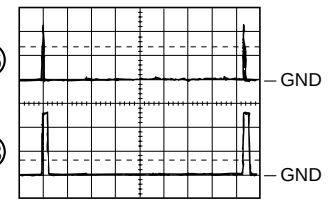
L

DEFLECTION SERVICE ASSY

Input signal
Video signal : EIA full color-bar
Picture quality : Standard
Range :DC range (Unless otherwise noted)

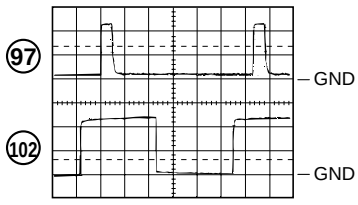
96 **TP307 (DV)**
V: 2V/div. H: 2msec/div.

98 **TP306 (V. BLK)**
V: 2V/div. H: 2msec/div.

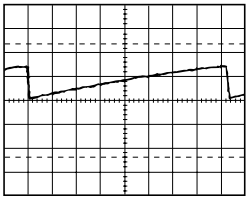


97 **TP308 (DH)**
V: 2V/div. H: 5µsec/div.

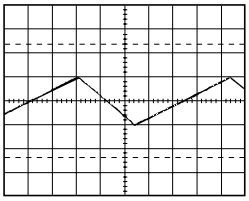
102 **IC301 pin 2**
V: 5V/div. H: 5µsec/div.



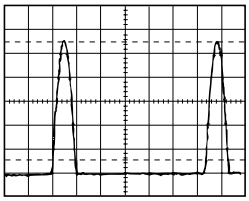
99 **IC301 pin 20**
V: 2V/div. H: 2msec/div.



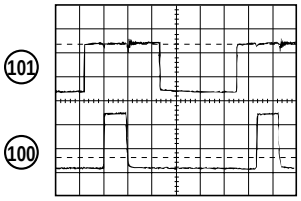
106 **IC301 pin 9**
V: 2V/div. H: 5µsec/div.



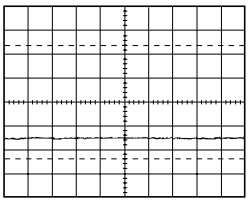
111 **Q309 Collector**
V: 200V/div. H: 5µsec/div.



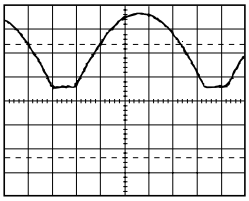
100 **TP305 (DH. BLK)**
V: 2V/div. H: 5µsec/div.
101 **TP304 (H. OSC)**
V: 2V/div. H: 5µsec/div.



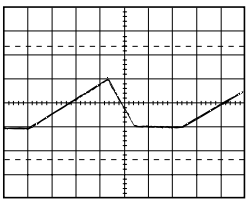
107 **IC301 pin 10, 11**
V: 2V/div. H: 5µsec/div.



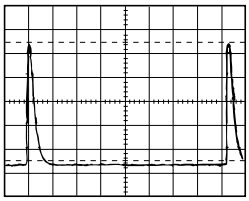
112 **TP312**
V: 20V/div. H: 5µsec/div.



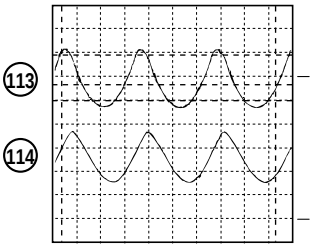
103 **IC301 pin 3**
V: 2V/div. H: 5µsec/div.



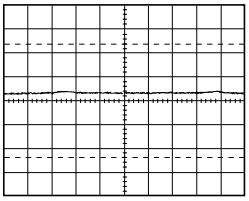
108 **IC301 pin 16**
V: 2V/div. H: 2msec/div.



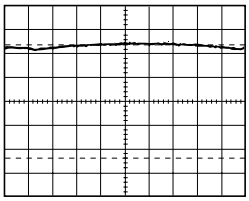
113 **Q751 Base**
V: 2V/div. H: 10µsec/div.
114 **Q754 Emitter**
V: 200V/div. H: 10µsec/div.



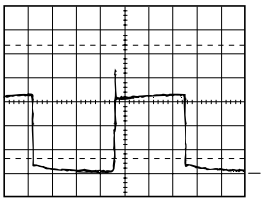
104 **IC301 pin 4**
V: 2V/div. H: 5µsec/div.



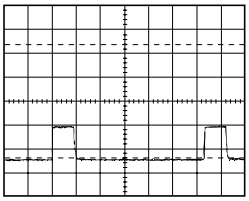
109 **Q324 Emitter**
V: 20V/div. H: 2msec/div.



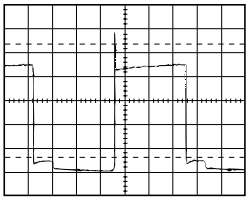
115 **Q601 Collector**
V: 10V/div. H: 5µsec/div.



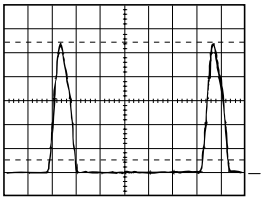
105 **IC301 pin 5**
V: 2V/div. H: 5µsec/div.



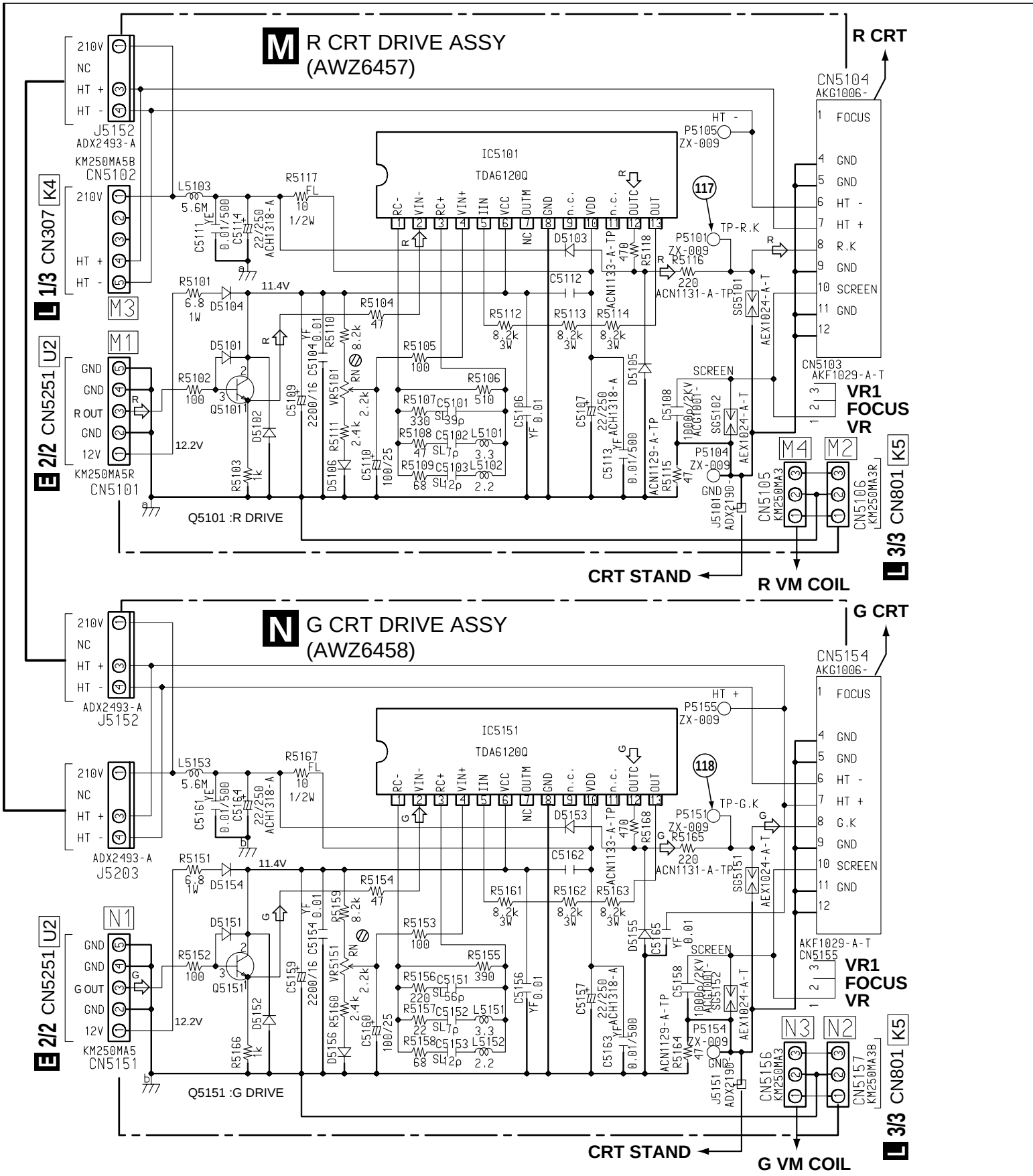
110 **Q308 Collector**
V: 10V/div. H: 5µsec/div.



116 **Q612 Collector**
V: 200V/div. H: 5µsec/div.

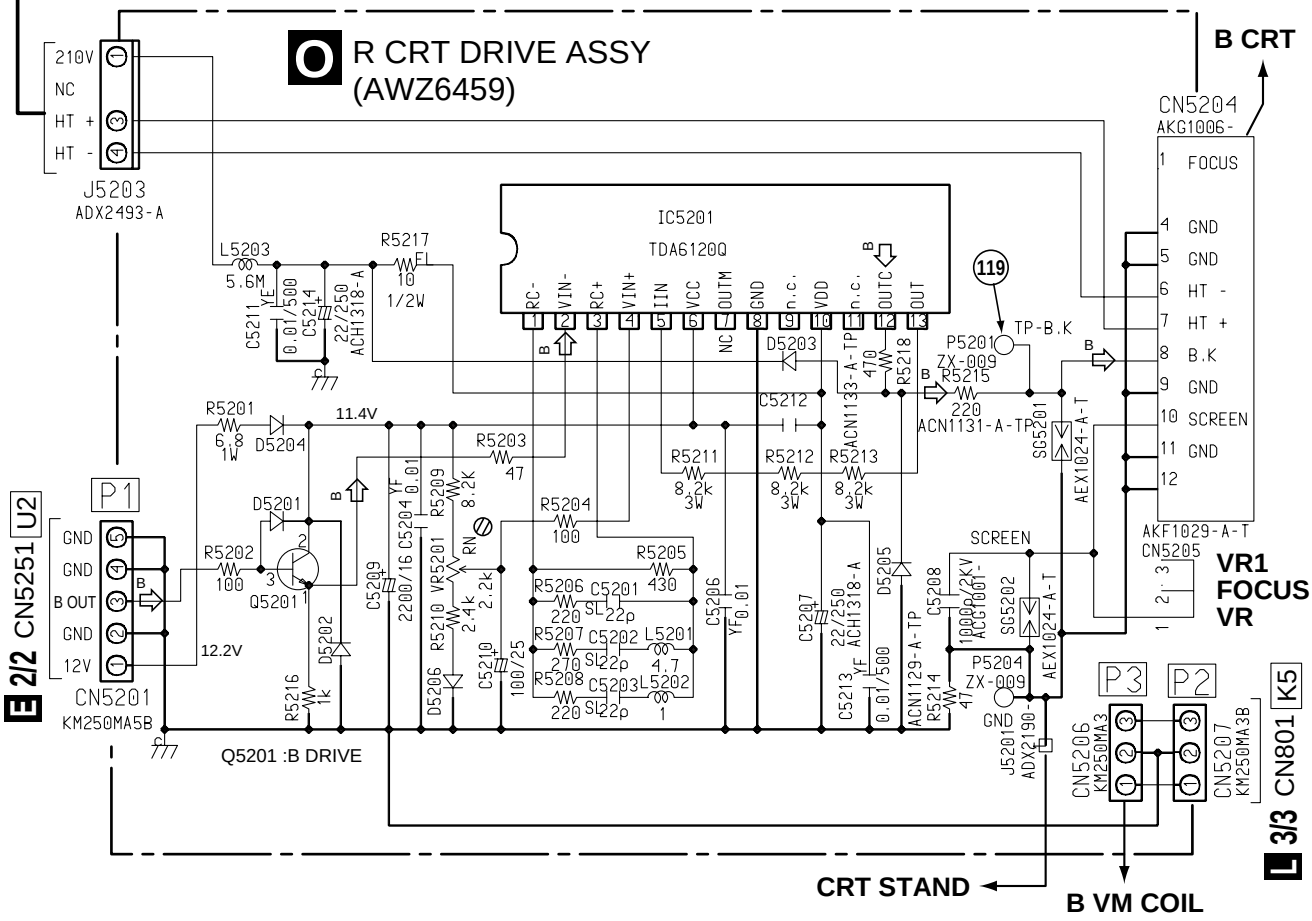


3.36 R, G and B CRT DRIVE ASSYS



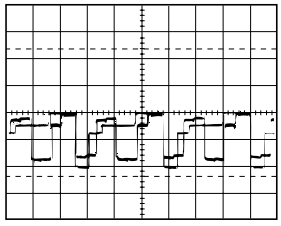
* Resistor indicated in ohm,1/4W+5% tolerance unless otherwise noted.k:k ohm,M:M ohm
* Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF indication without voltage is 50V except Electrolytic capacitor.
* Diode S5688G-TP
* Transister 2SC1740S(RS)-T

R, G or B : R, G or B SIGNAL ROUTE

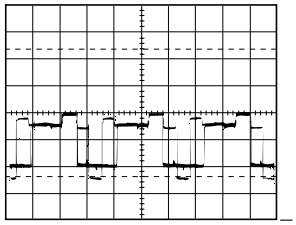


INPUT Signal
Video signal: EIA full color-bar
Picture quality: Standard
Range: DC range

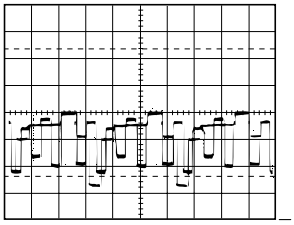
(117) **TP-R.K**
V: 50V/div. H: 10µsec/div.



(118) **TP-G.K**
V: 50V/div. H: 10µsec/div.

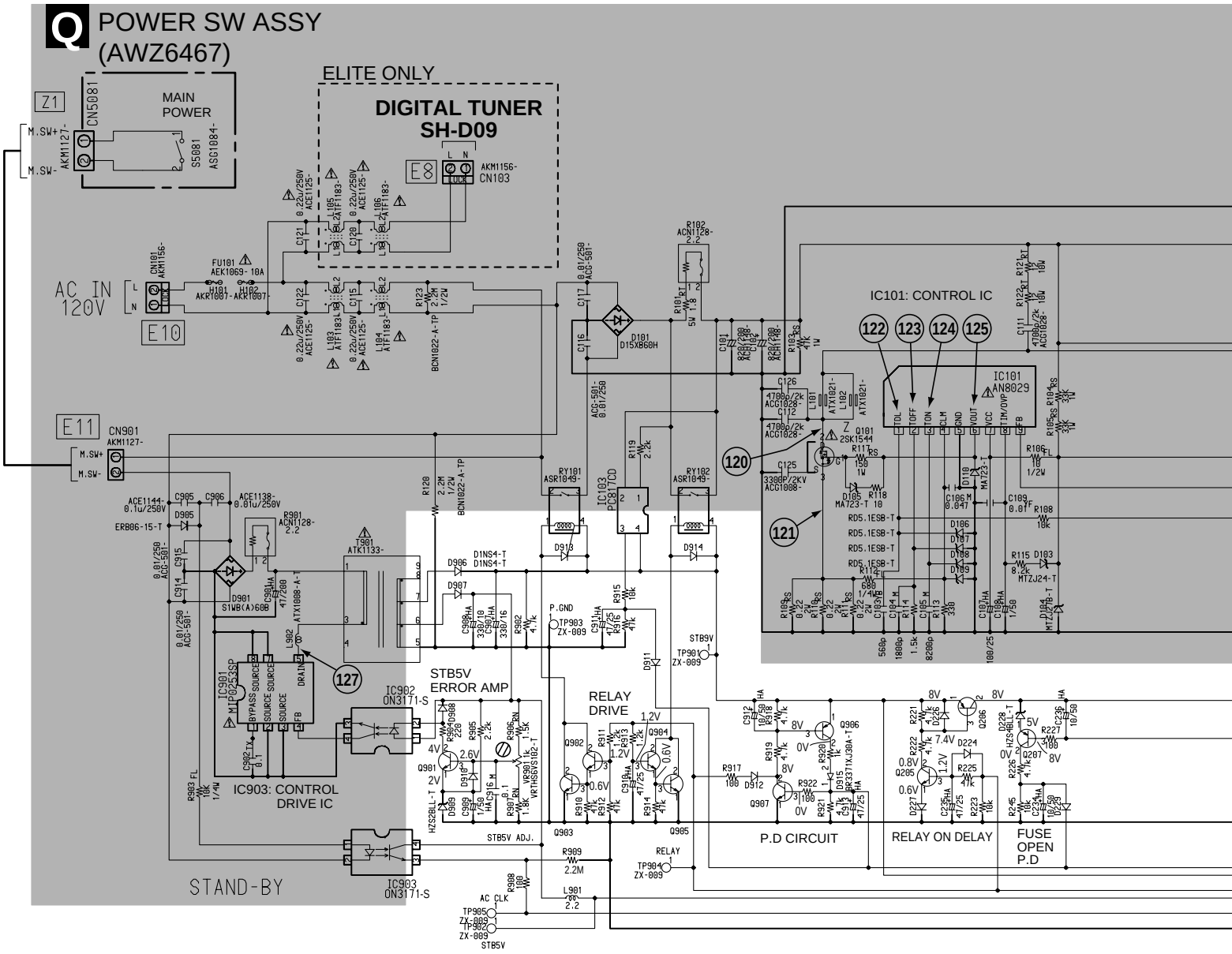


(119) **TP-B.K**
V: 50V/div. H: 10µsec/div.



3.37 POWER SUPPLY ASSY

P POWER SUPPLY ASSY
(AWV1795 : ELITE)
(AWV1808 : REGULAR)



1.RESISTORS
(RS);METAL OXIDE FILM RESISTOR
(RT);CEMENT RESISTOR
(RN);METAL FILM RESISTOR
(FL);NONFLAMMABLE RESISTOR
THE OTHERS;CARBON FILM RESISTOR

Those unspecified ones are of 1/4W
k;kΩ ,M;MΩ ,Unspecified ones are ofΩ

2.CAPACITORS
(YF);CERAMIC CAPACITOR
(SL);CERAMIC CAPACITOR
(HA);HIGH TEMP CHEMICAL CAPACITOR
(YB);CERAMIC CAPACITOR
(M);MILAR CAPACITOR
p;pF,Unspecified ones are of μ F
Capacity / Voltage (;A.C,no mark;D.C)
Unspecified ones are of 50V

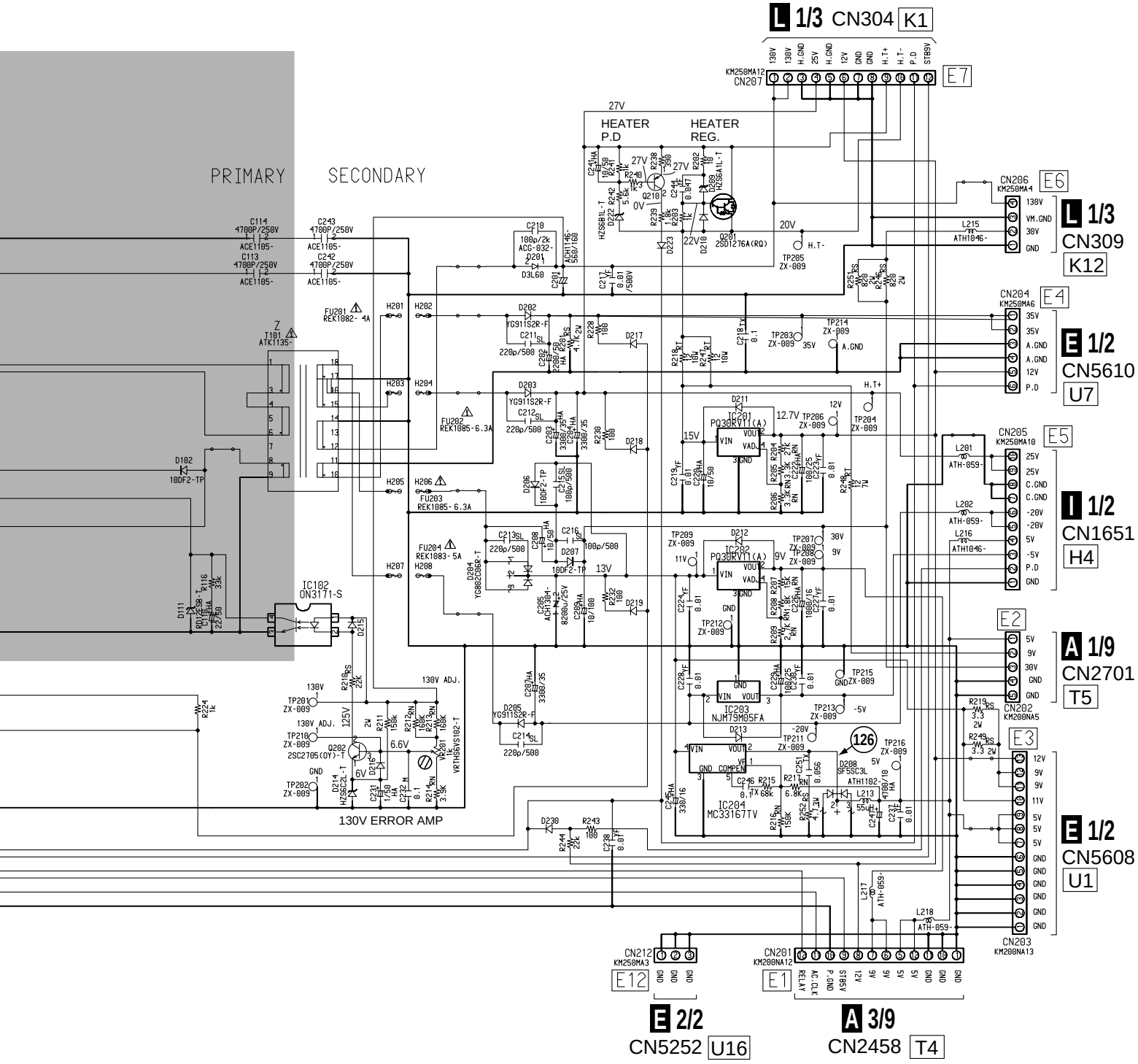
3.The ⚠ mark found on same component parts indicates
the importance of the safety factor of the parts.
Therefore,when replacing,be sure to use parts of identical de-signation.

: CHARGED SECTION

2SA933S(RS)-T
2SC1740S(RS)-T
1SS254-T

• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

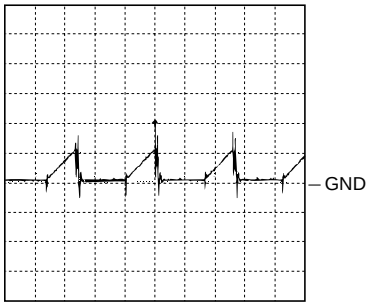


P POWER SUPPLY ASSY

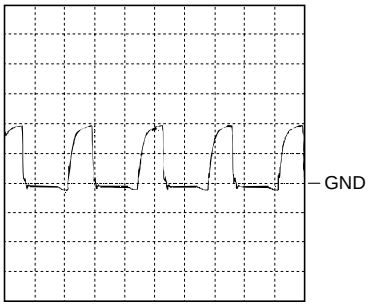
Input signal
Video signal : EIA full color-bar
Picture quality : Standard
Range :DC range (Unless otherwise noted)

120 Q101 Drain
V: 100V/div. H: 10µsec/div.

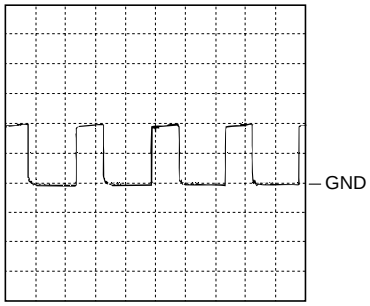
124 IC101 pin 3
V: 500mV/div. H: 10µsec/div.



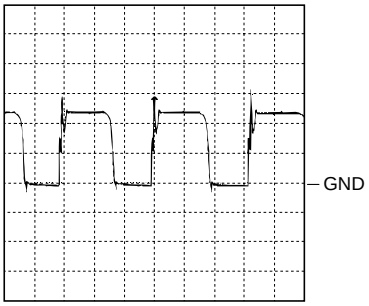
121 Q101 Gate
V: 10V/div. H: 10µsec/div.



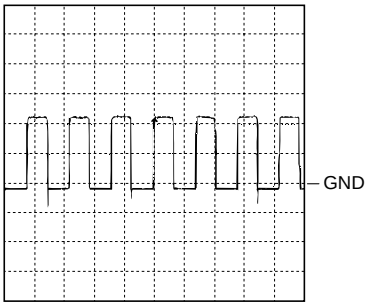
125 IC101 pin 6
V: 10V/div. H: 10µsec/div.



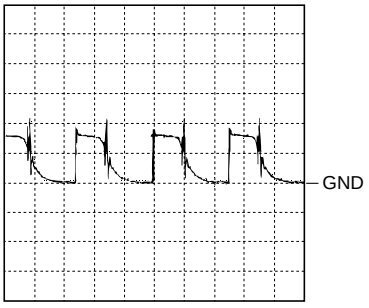
122 IC101 pin 1
V: 1V/div. H: 10µsec/div.



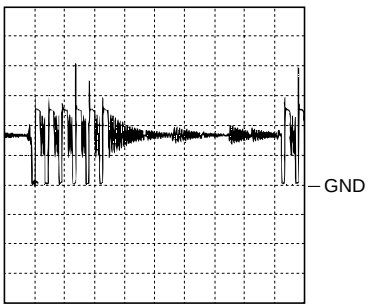
126 IC204 pin 2
V: 5V/div. H: 10µsec/div.



123 IC101 pin 2
V: 500mV/div. H: 10µsec/div.

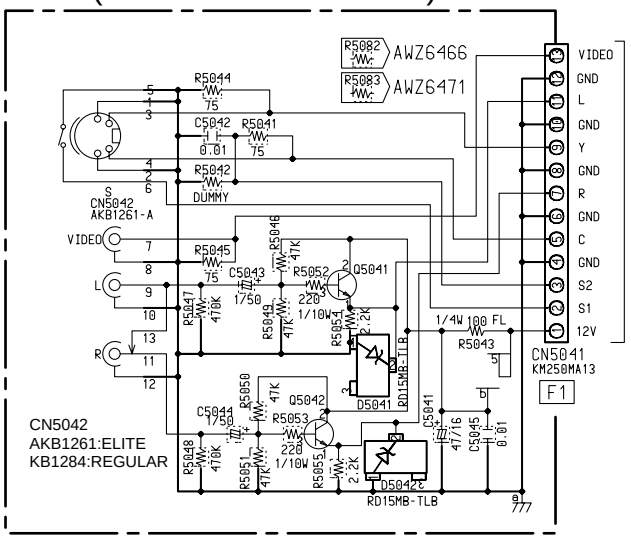


127 IC901 pin 5
V: 100V/div. H: 50µsec/div.



3.38 FRONT INPUT, FRONT CONTROL and LED DPO ASSYS

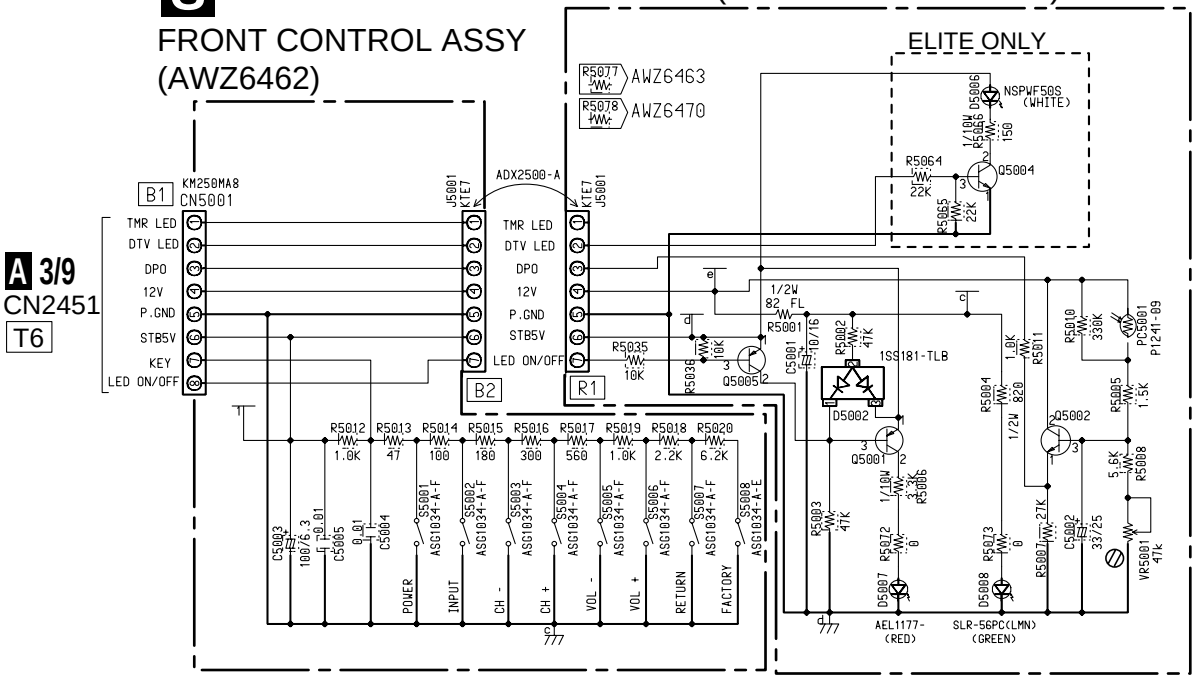
R FRONT INPUT ASSY
(AWZ6466 : ELITE)
(AWZ6471 : REGULAR)



Notes
1.RESISTORS
Indicated in Ω
tolerance unless otherwise noted k Ω
2.CAPASITORS
Indicated in capacity(uF)/Voltage unless otherwise noted p pF
Indication without voltage is 50V except electrolytic capacitor.

T LED DPO ASSY
(AWZ6463 : ELITE)
(AWZ6470 : REGULAR)

S FRONT CONTROL ASSY
(AWZ6462)

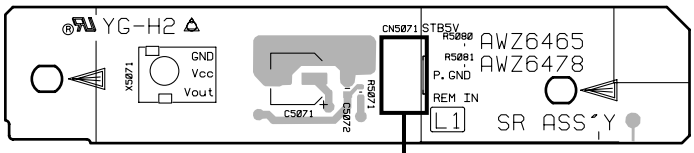


FRONT CONTROL ASSY
S5001 : STANDBY/ON
S5002 : INPUT SELECTOR
S5003 : CHANNEL –
S5004 : CHANNEL +
S5005 : VOLUME –
S5006 : VOLUME +
S5007 : RETURN
S5008 : FACTORY ADJ

4. PCB CONNECTION DIAGRAM

4.1 AV I/O ASSY, SR ASSY, FRONT INPUT ASSY and BNC ASSY

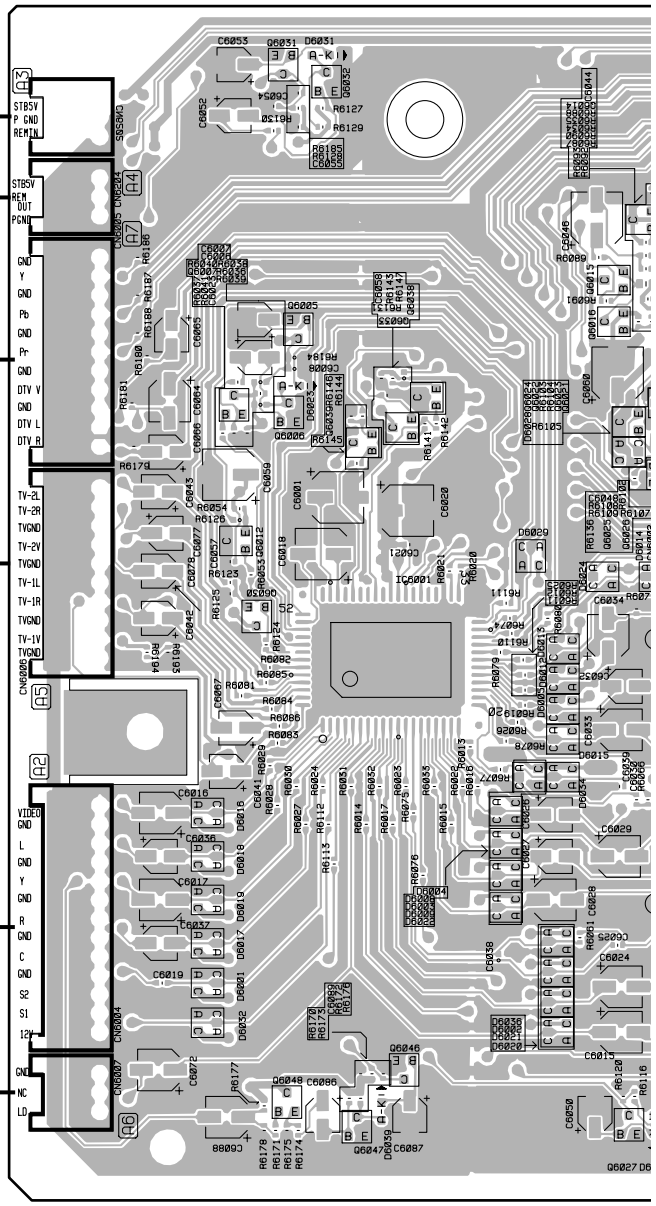
D SR ASSY



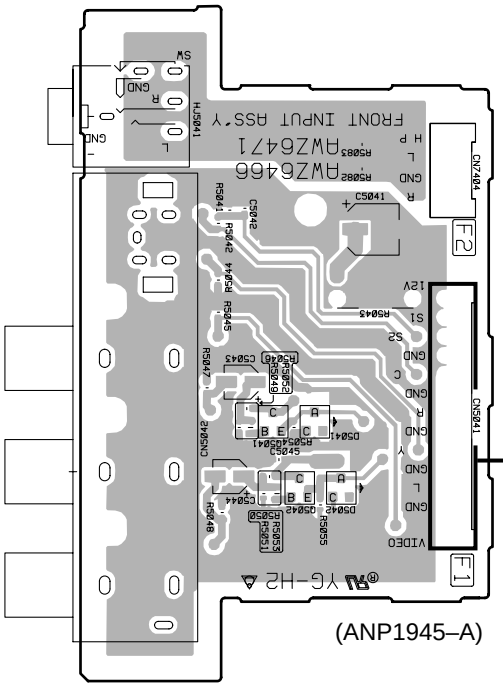
(ANP1945–A)

SIDE A

B AV I/O ASSY



R FRONT INPUT ASSY



(ANP1945–A)

A J2451 T12

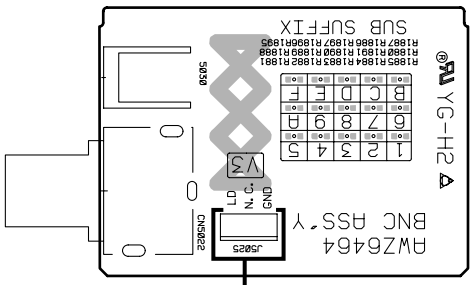
DIGITAL TUNER SH-D09

Q5041

Q5042

A J2703 T2

C BNC ASSY



(ANP1945–A)

Q6031 Q6032
Q6005
Q6014–Q6016
Q6007 Q6006 Q6039 Q6033 Q6038 Q6024
Q6012 IC6001 Q6028
Q6030 Q6046
Q6048 Q6047 Q6027

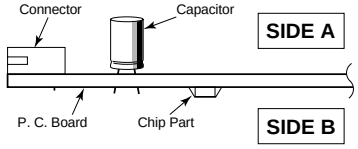
NOTE FOR PCB DIAGRAMS:

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor

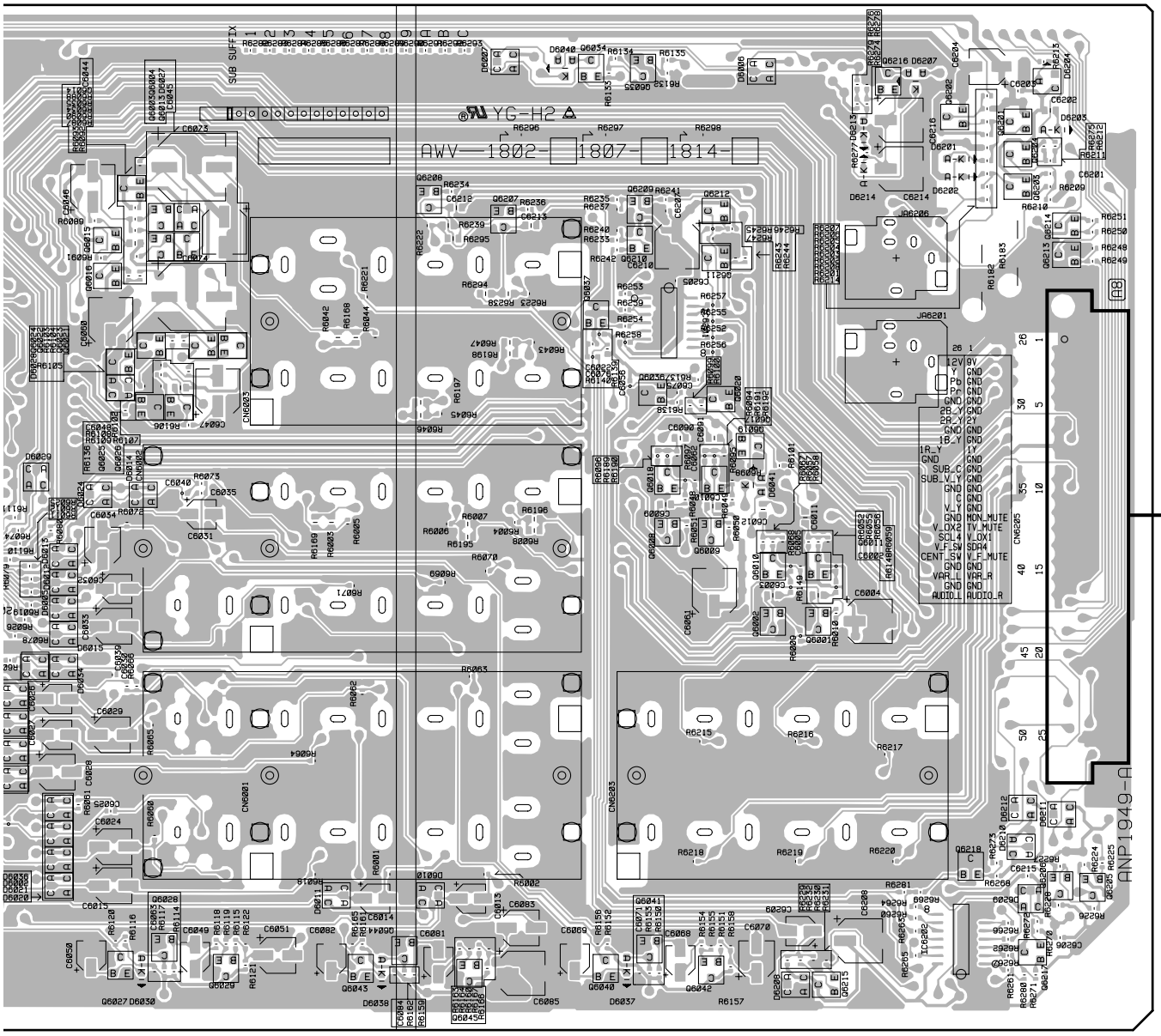
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destination.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. Viewpoint of PCB diagrams



SIDE A

(ANP1949–A)



Q6235 Q6216

Q6014–Q6016 Q6004 Q6003 Q6013 Q6208 Q6207 Q6209–Q6212 Q6201–Q6204 Q6214 Q6213

38 Q6024 Q6022 Q6023 Q6021 Q6037 Q6036 Q6020 Q6002 Q6001

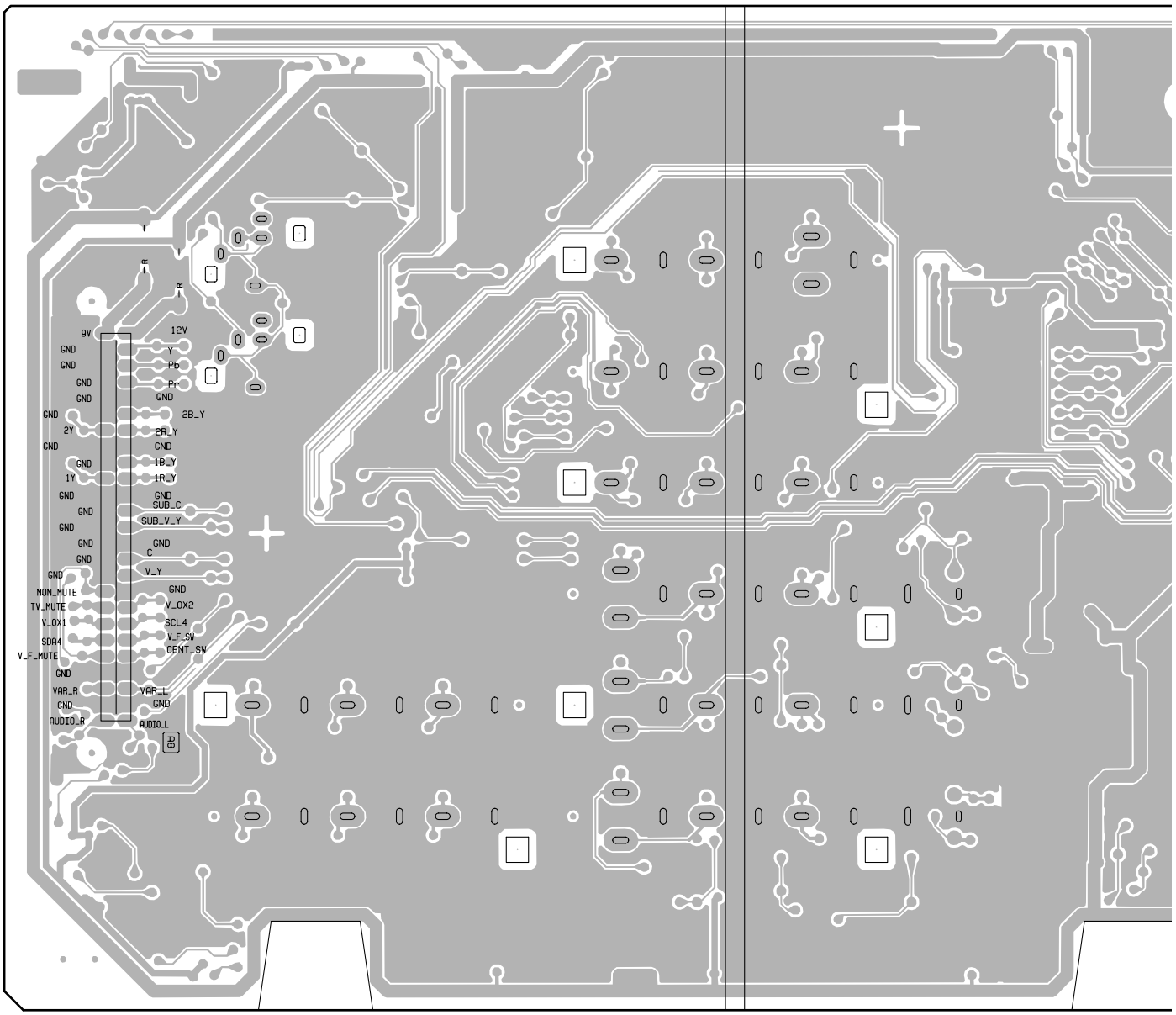
Q6028 Q6025 Q6026 Q6008 Q6018 Q6017 Q6009 Q6010 Q6011

Q6218 Q6205

Q6027 Q6028 Q6029 Q6043 Q6044 Q6045 Q6040 Q6041 Q6042 Q6215 IC6202 Q6217

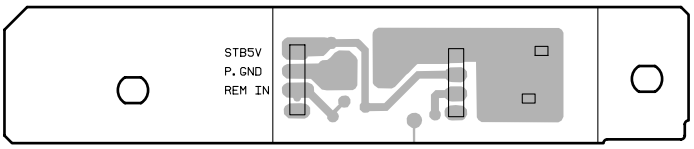
SIDE B

B AV I/O ASSY

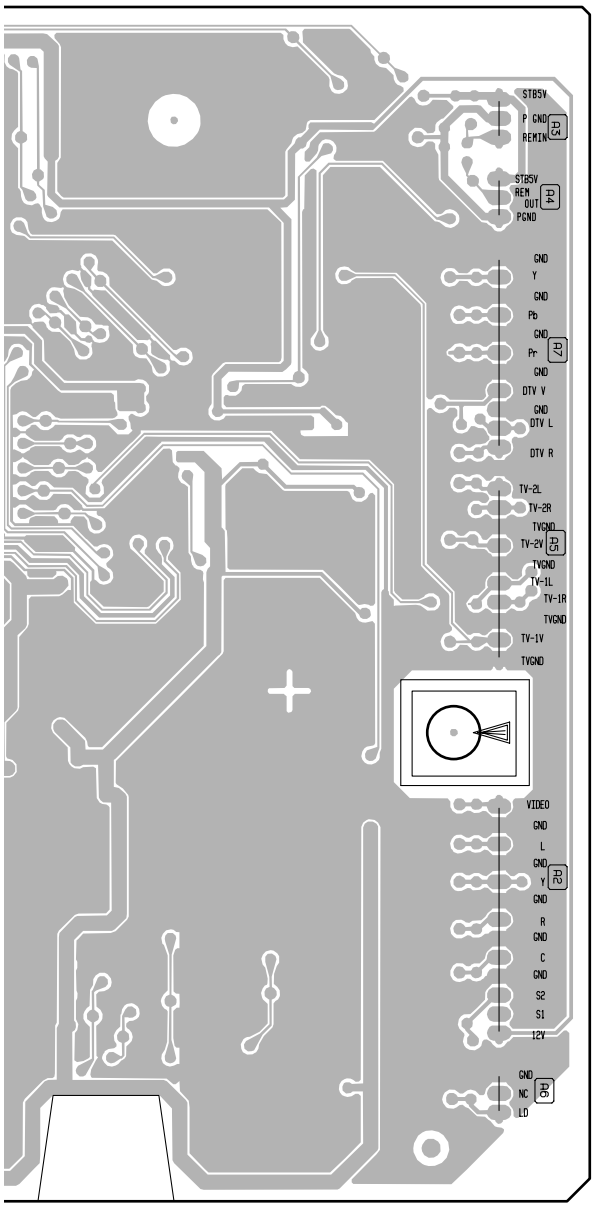


SIDE B

D SR ASSY

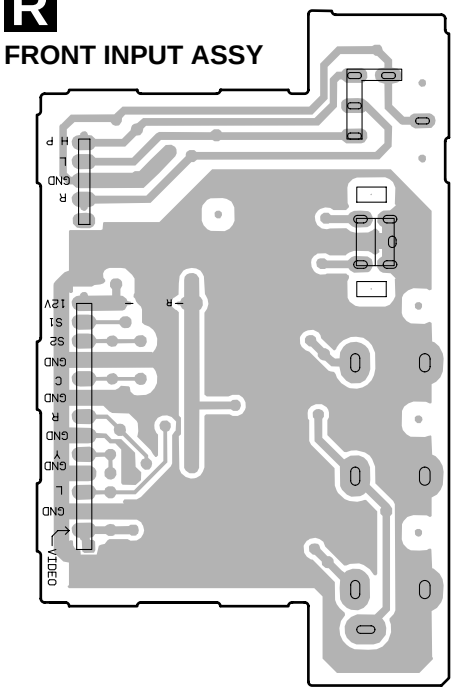


(ANP1945–A)



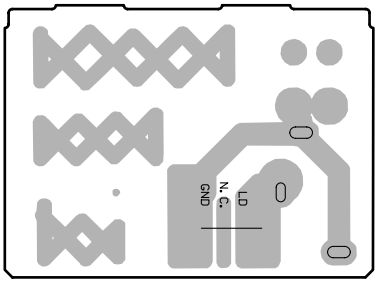
(ANP1949–A)

R FRONT INPUT ASSY



(ANP1945–A)

C BNC ASSY

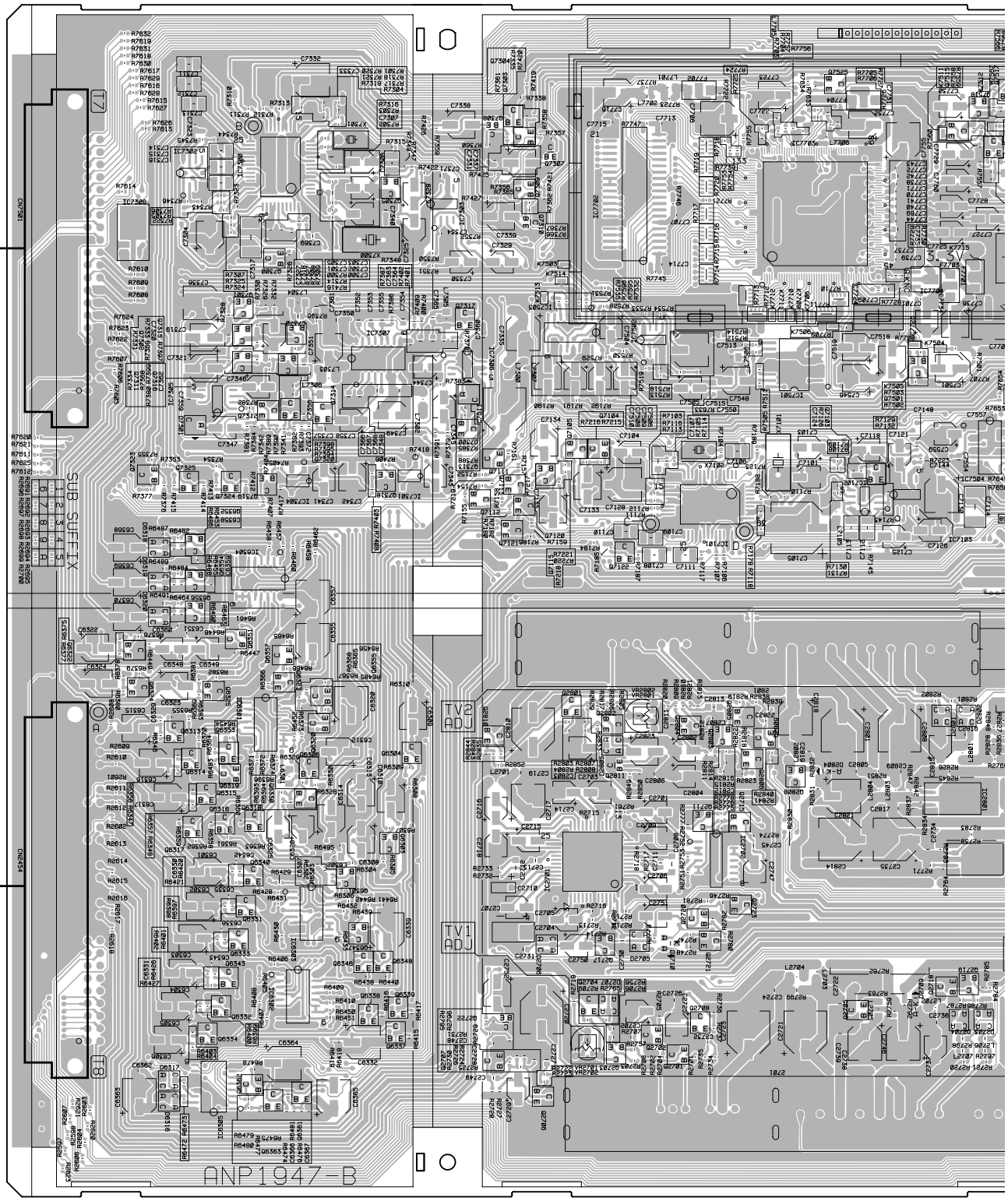


(ANP1945–A)

4.2 SIGNAL ASSY

A-a

A SIGNAL ASSY

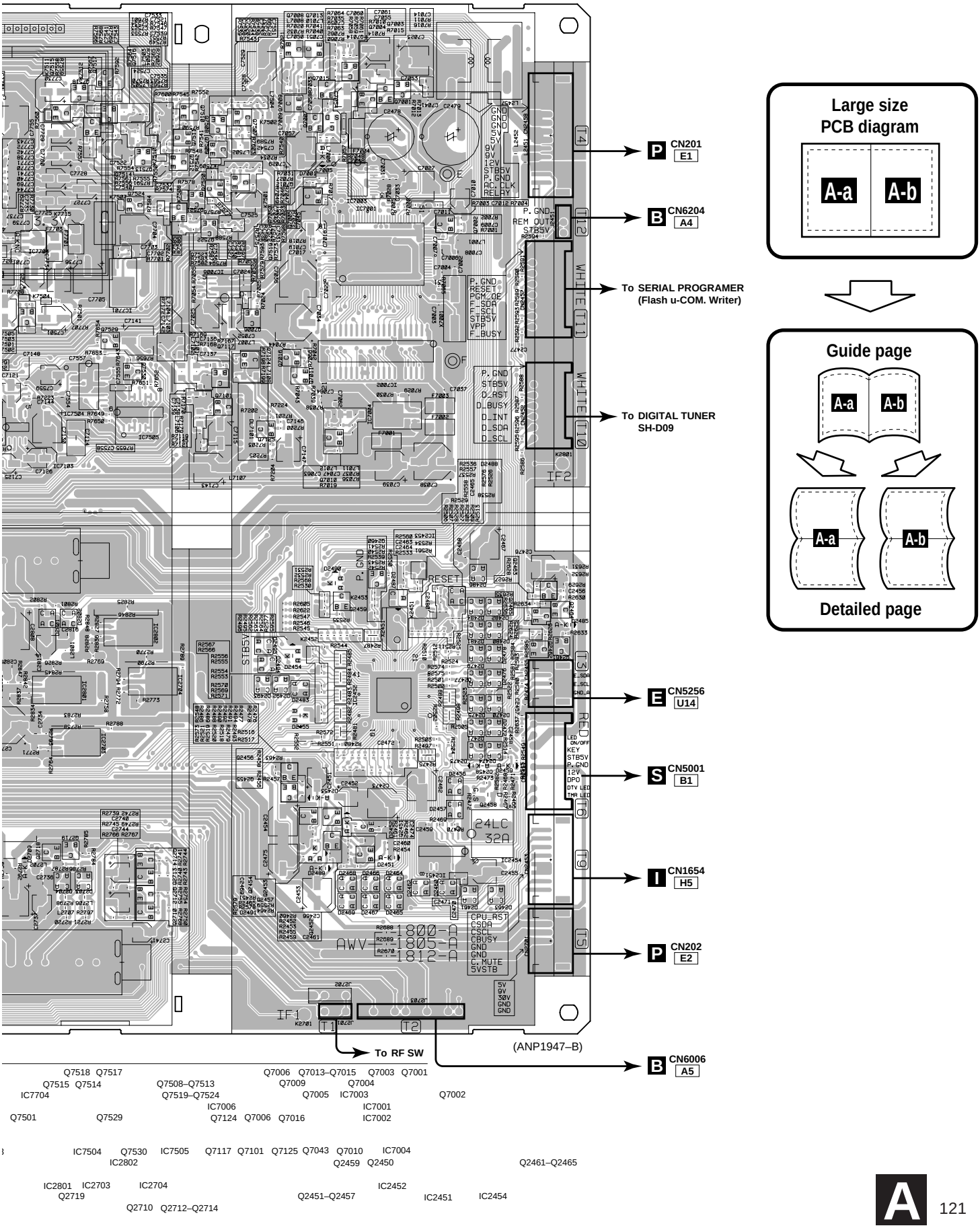


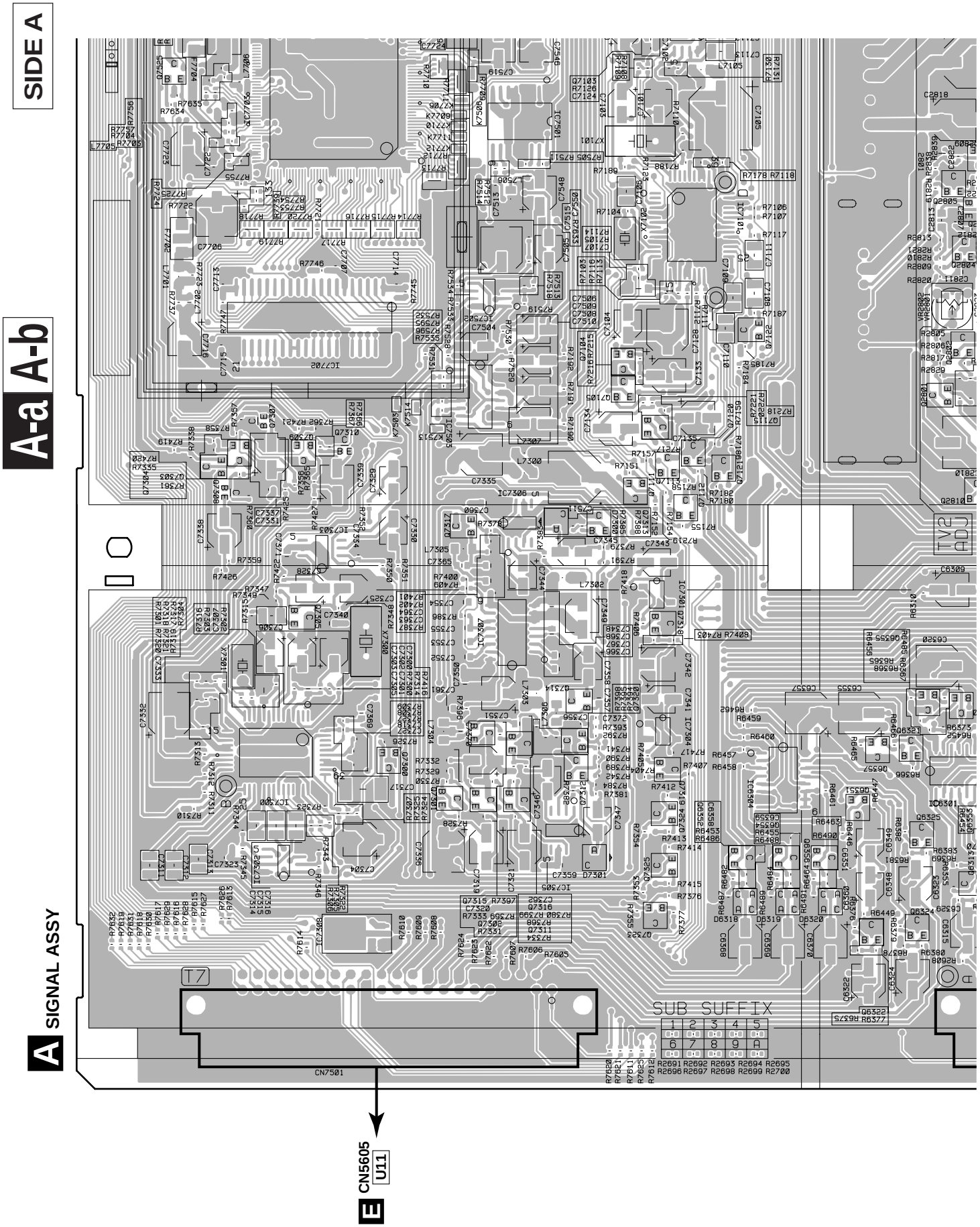
VR2701 VR2802

Q7304 Q7525 Q7518 Q
IC7302 IC7300 Q7305 IC7303 Q7308 Q7303 IC7202 IC7703 Q7515 Q7514
Q7301 Q7300 Q7309 Q7307 IC7704
Q7302 Q7315 Q7317 Q7310 IC7503 IC7502
IC7305 Q7311 Q7316 IC7307 IC7308 IC7501 Q7501 Q
Q7312 Q7314 Q7313
Q7323–Q7325 Q7319 IC7304 IC7301 Q7111–Q7113 Q7105 Q7104
IC6304 Q7121 Q7120 Q7115 Q7122 IC7101 IC7102 Q7103 IC7504
Q6322 Q6324 Q6356 Q6351 Q6357 Q6355 Q2810 Q2801 Q2802 Q2803–Q2805 Q2809
Q6313 Q6353 Q6321 IC6301 Q6320
Q6314–Q6319 Q6353 Q6340 Q6330 Q6306 Q6301 Q6303 Q6304 IC2701 Q2811 Q2711 IC2702 Q2715 Q2808 IC2801 IC27
Q6331–Q6333 Q6343 IC6302 IC6303 Q6346–Q6348 Q2717 Q2720 Q2721 Q2723 Q2705 Q2719
Q6334 Q6361–Q6363 Q6337–Q6339 Q2707 Q2722 Q2706 Q2701–Q2704 Q2708

A-b

SIDE A


P CN201 E1
B CN6204 A4
To SERIAL PROGRAMER (Flash u-COM. Writer)
To DIGITAL TUNER SH-D09
E CN5256 U14
S CN5001 B1
I CN1654 H5
P CN202 E2
B CN6006 A5
To RF SW
(ANP1947–B)
Large size PCB diagram
A-a
A-b
Guide page
Detailed page
IC7704
IC7006
IC7001
IC7002
IC7504
IC7505
IC2802
IC2801
IC2703
IC2704
IC2719
IC2452
IC2451
IC2454
Q7518 Q7517
Q7515 Q7514
Q7508–Q7513
Q7519–Q7524
Q7006 Q7013–Q7015 Q7003 Q7001
Q7009
Q7004
Q7005
Q7002
Q7501
Q7529
Q7124 Q7006 Q7016
Q7530
Q7117 Q7101 Q7125 Q7043 Q7010
Q2459 Q2450
Q2461–Q2465
Q2710 Q2712–Q2714
Q2451–Q2457


SIDE A
A-a A-b
A SIGNAL ASSY
CN7501
CN5605
U11
SUB SUFFIX
R2691 R2692 R2693 R2694 R2695
R2696 R2697 R2698 R2699 R2700

VR2701 VR2802 IC7202 IC7501 IC7102

Q7525 IC7703

Q7304 IC7303 Q7308 Q7303 IC7502

Q7309 Q7307

Q7317 Q7310 IC7503

IC7308

Q7313

IC7301 Q7111–Q7113 Q7105 Q7104

Q7121 Q7120 Q7115 Q7122 IC7101

Q2810 Q2801 Q2802 Q2803–Q2805 Q2809

IC7307 IC7300 Q7305 Q7300 Q7301 Q7302 Q7315 Q7316 Q7311 Q7312 Q7314 Q7319 IC7304 IC6304 Q6351 Q6357 Q6355 Q6321 IC6301 Q6320 Q6330 Q6306 Q6340 Q6343 IC6302 IC6303 Q6301 Q6303 Q6304 Q6346–Q6348 Q6337–Q6339 IC6303 Q6361–Q6363 Q6322 Q6324 Q6356 Q6313 Q6353 Q6314–Q6319 Q6331–Q6333 Q6334 IC7302 Q7323–Q7325

IC7701 Q2711 IC2702 Q2715 Q2808 Q27

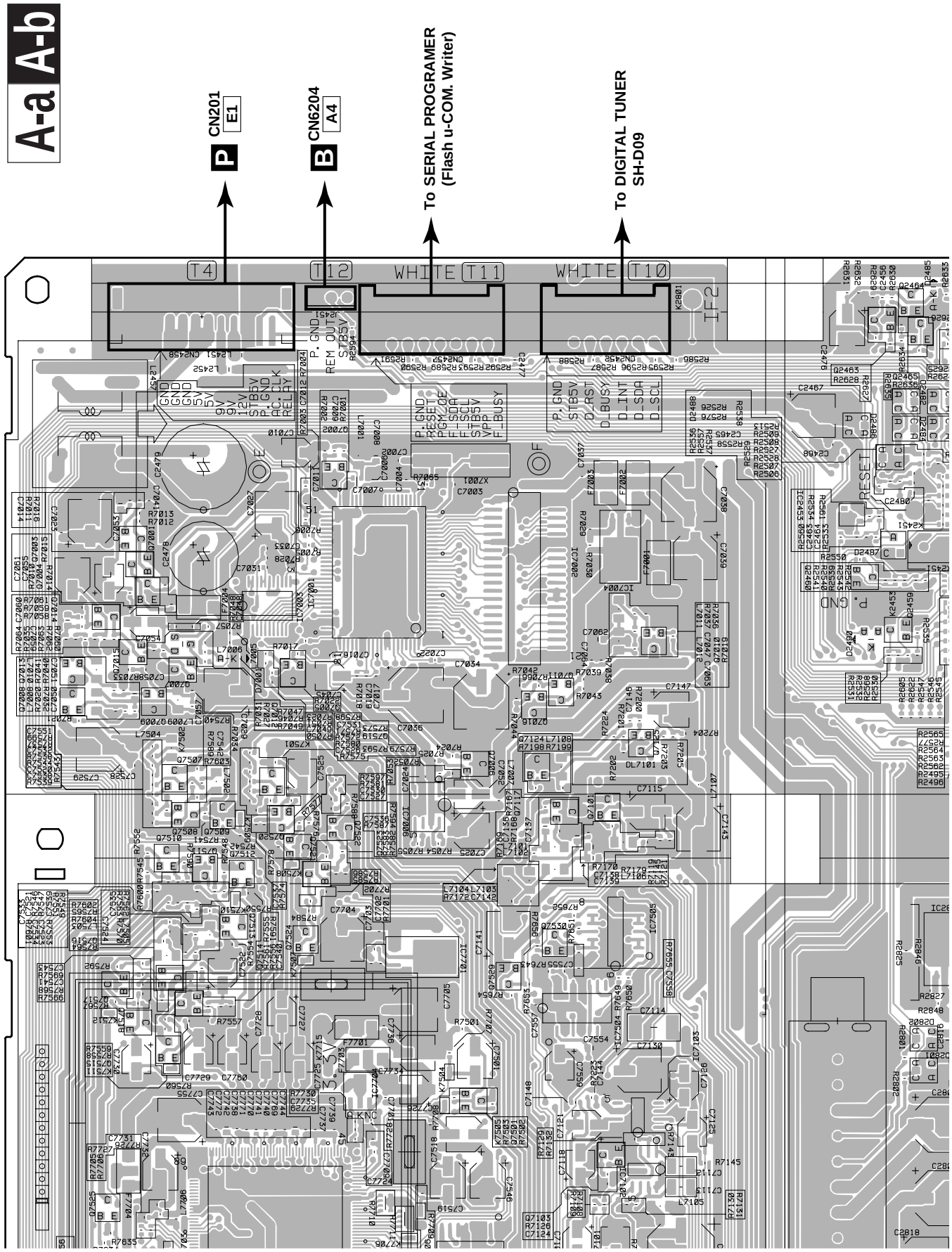
IC2701 Q2811 Q2717 Q2720 Q2721 Q2723

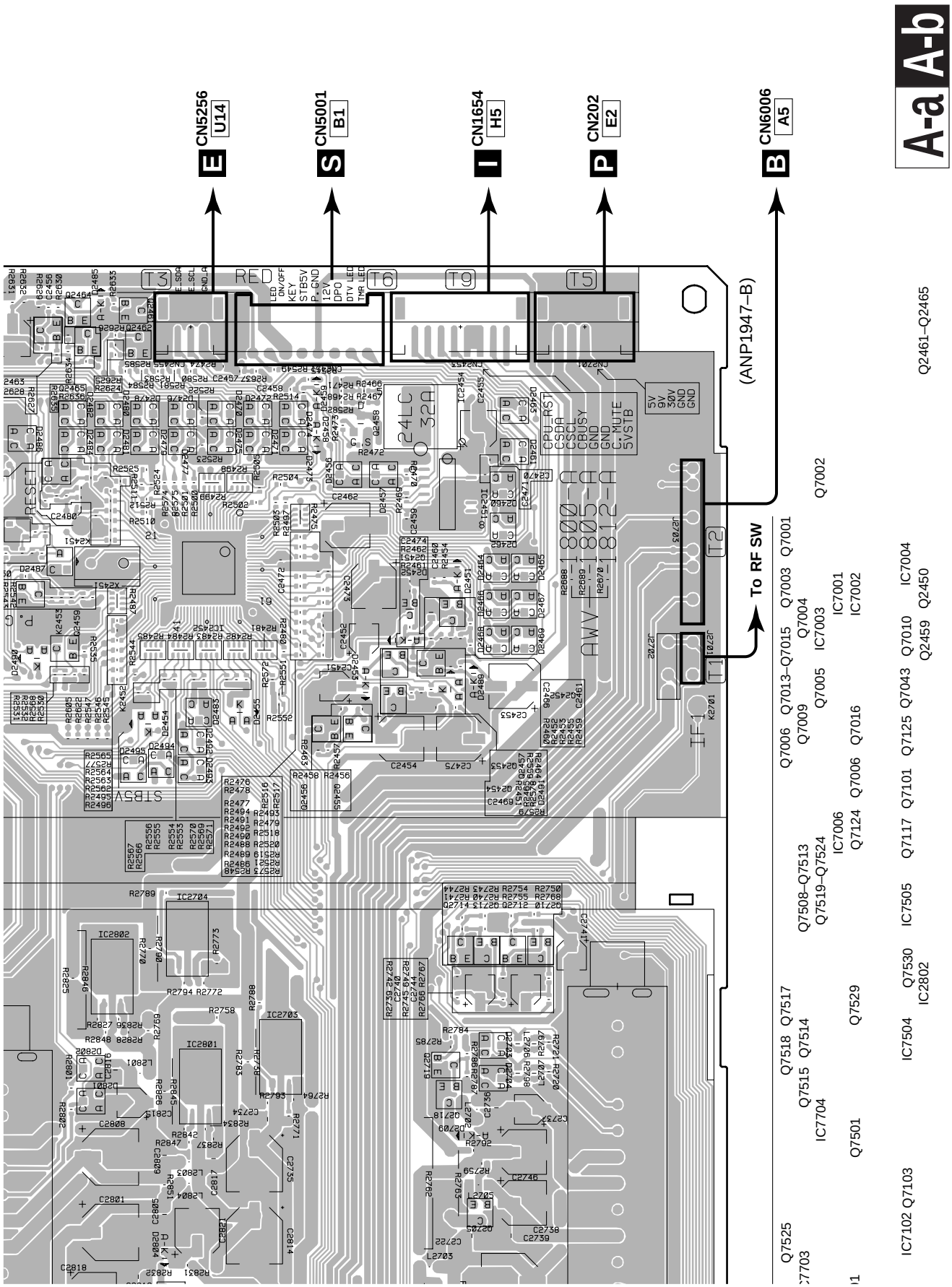
Q2706 Q2707 Q2722 Q2701–Q2704 Q2708

A-a A-b

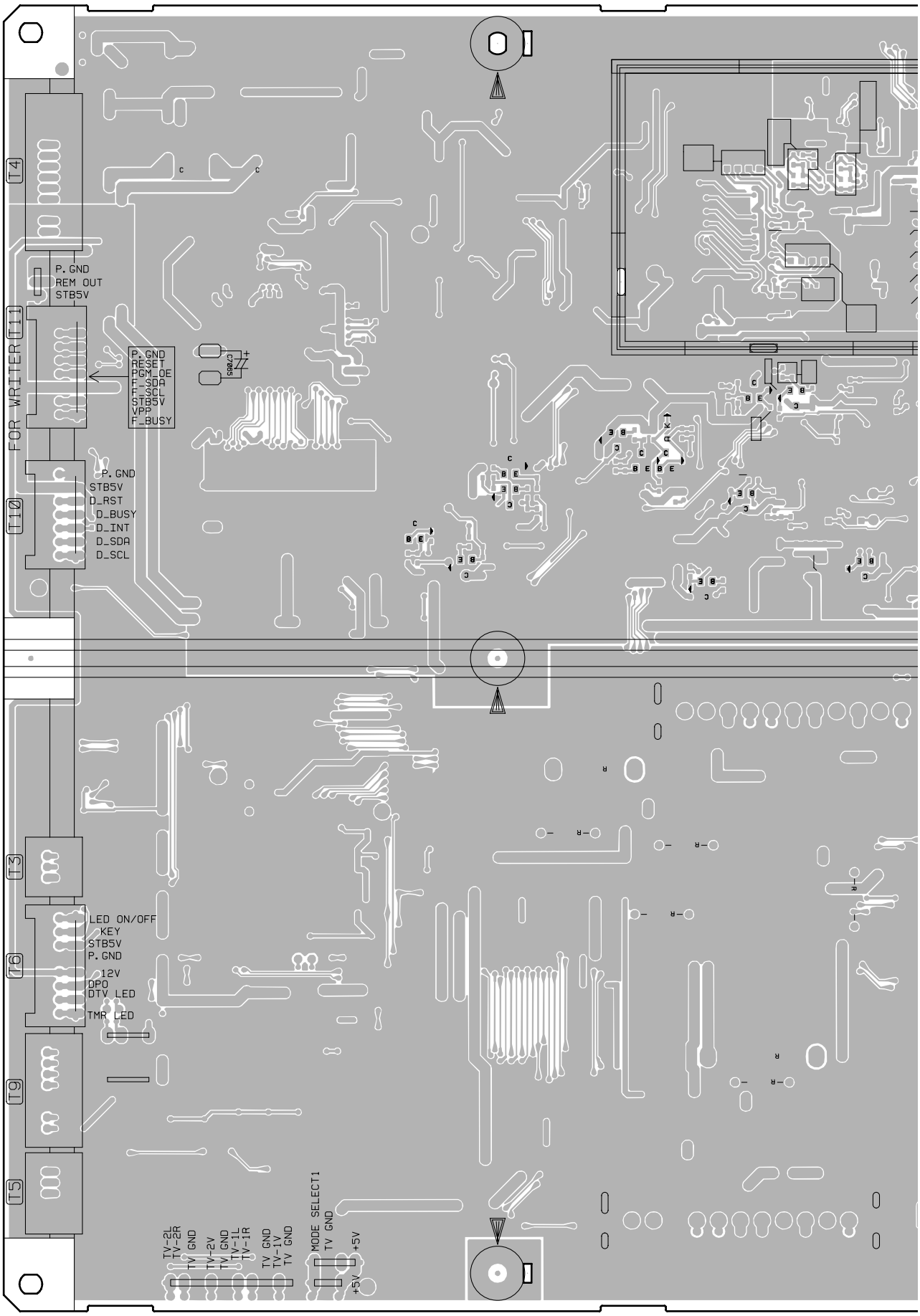
A-a A-b

SIDE A

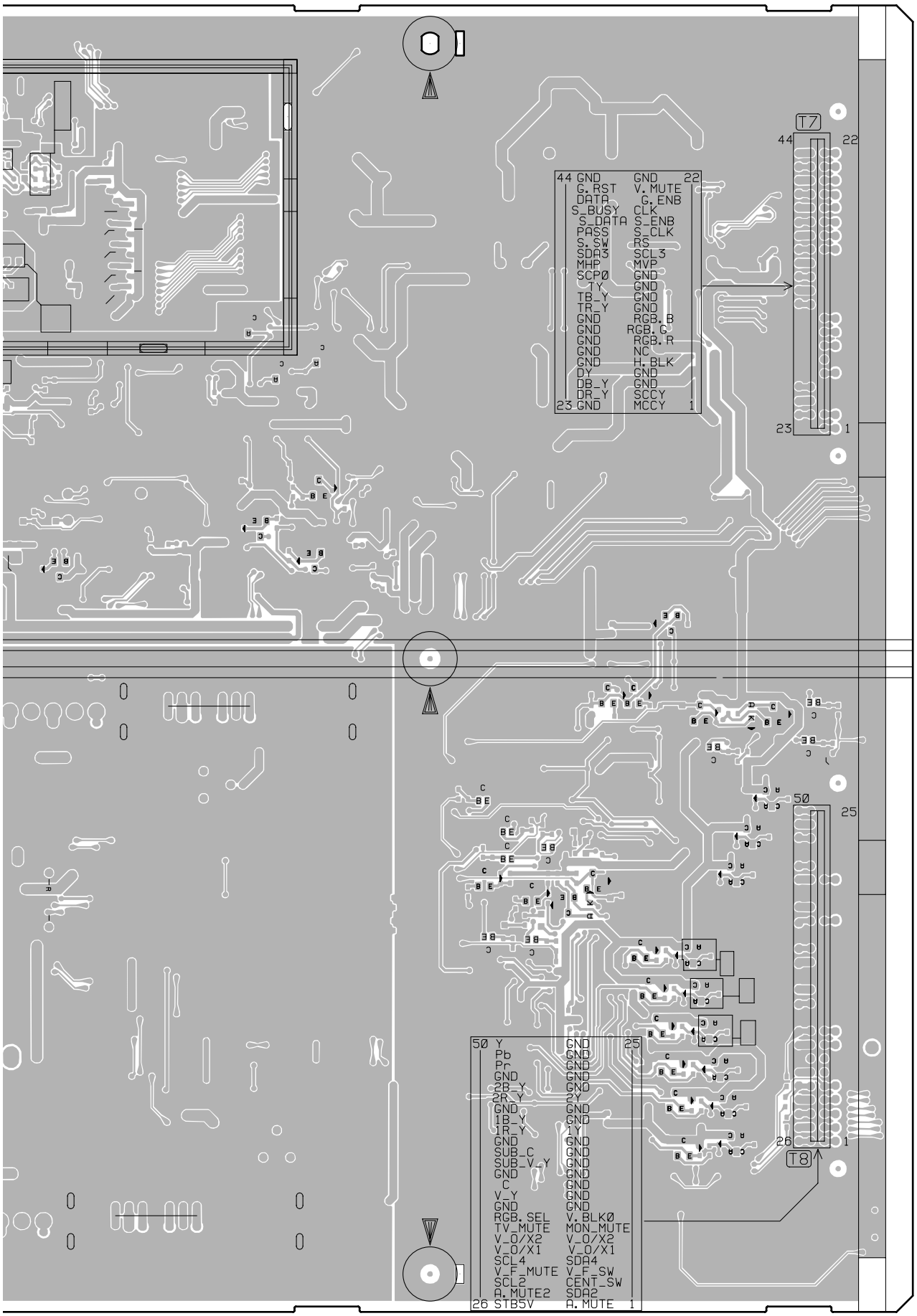

P CN201 E1
B CN6204 A4
To SERIAL PROGRAMER (Flash u-COM. Writer)
To DIGITAL TUNER SH-D09
T4
T12
WHITE T11
WHITE T10
P. GND
REM OUT
STBY5V
GND
GND
GND
5V
5V
9V
9V
12V
STBY5V
P.GND
A.CLK
RELAY
P.GND
RESET
PGM2OE
F.SCL
F.SDA
STBY5V
VPP
F.BUSY
P.GND
STBY5V
D.RST
D.BUSY
D.INT
D.SDA
D.SCL
IF2
RESET
P.GND


A-a A-b
E CN5256 U14
S CN5001 B1
I CN1654 H5
P CN202 E2
B CN6006 A5
(ANP1947–B)
To RF SW
T1
T2
T3
T5
T6
T9
IF1
IC2704
IC2802
IC2801
IC2703
IC7504
IC7505
IC7102
IC7103
IC7704
IC7006
IC7001
IC7002
IC7003
IC7004
IC2452
IC2451
IC2454
Q7002
Q2461–Q2465
Q7001
Q7003
Q7004
Q7005
Q7006
Q7007
Q7009
Q7010
Q7013–Q7015
Q7016
Q7043
Q7101
Q7117
Q7124
Q7125
Q7501
Q7508–Q7513
Q7514
Q7515
Q7517
Q7518
Q7519–Q7524
Q7525
Q7529
Q7530
Q2450
Q2451–Q2457
Q2459
Q2705
Q2710
Q2712–Q2714
Q2719
RESET
STBSV
CPU_RST
CSDA
CSCL
CBUSY
GND
C.MUTE
SVSTB
5V
9V
30V
GND
GND
24LC 32A
AWV1805-A
AWV1812-A

A SIGNAL ASSY



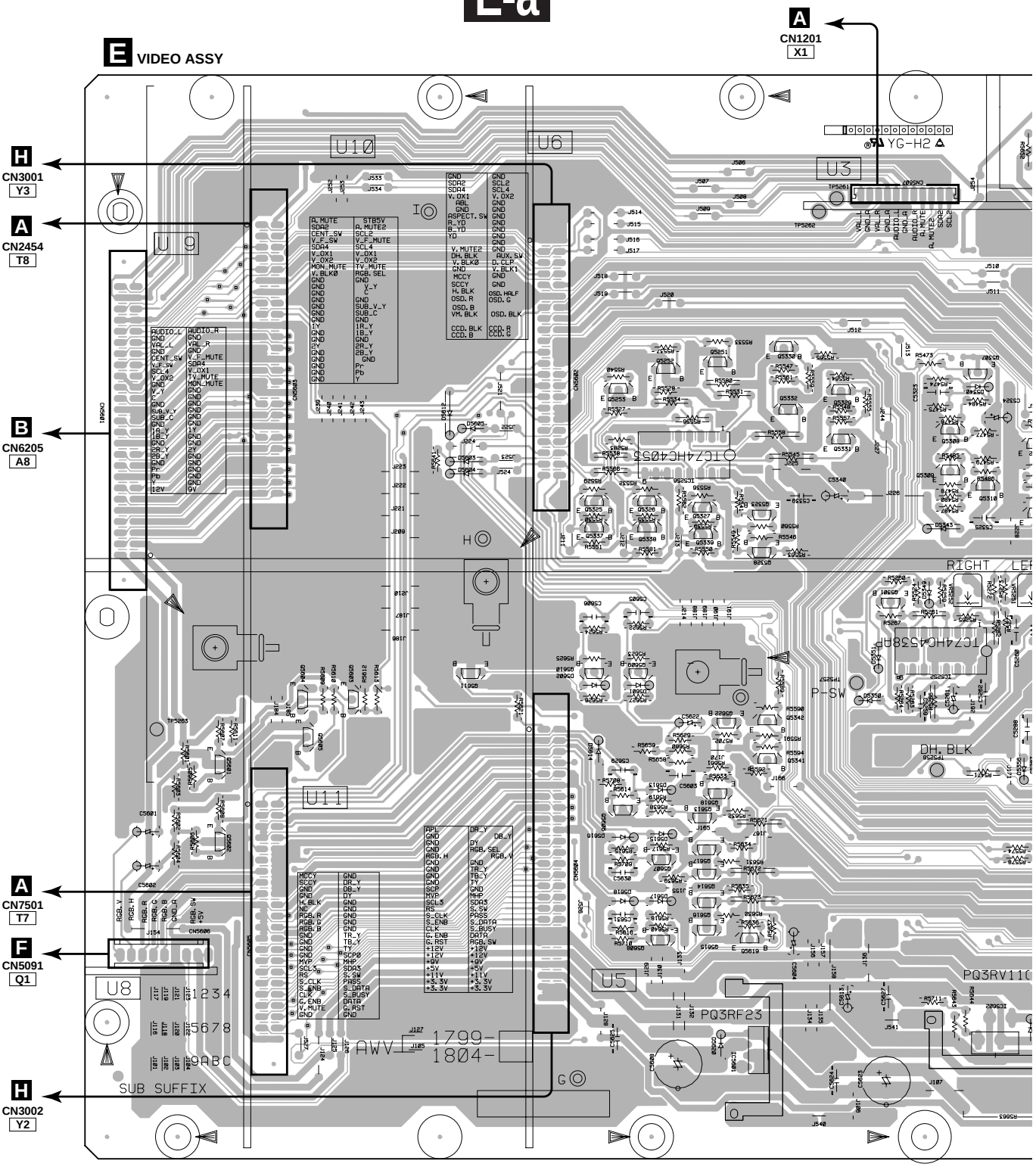
SIDE B



(ANP1947–B)

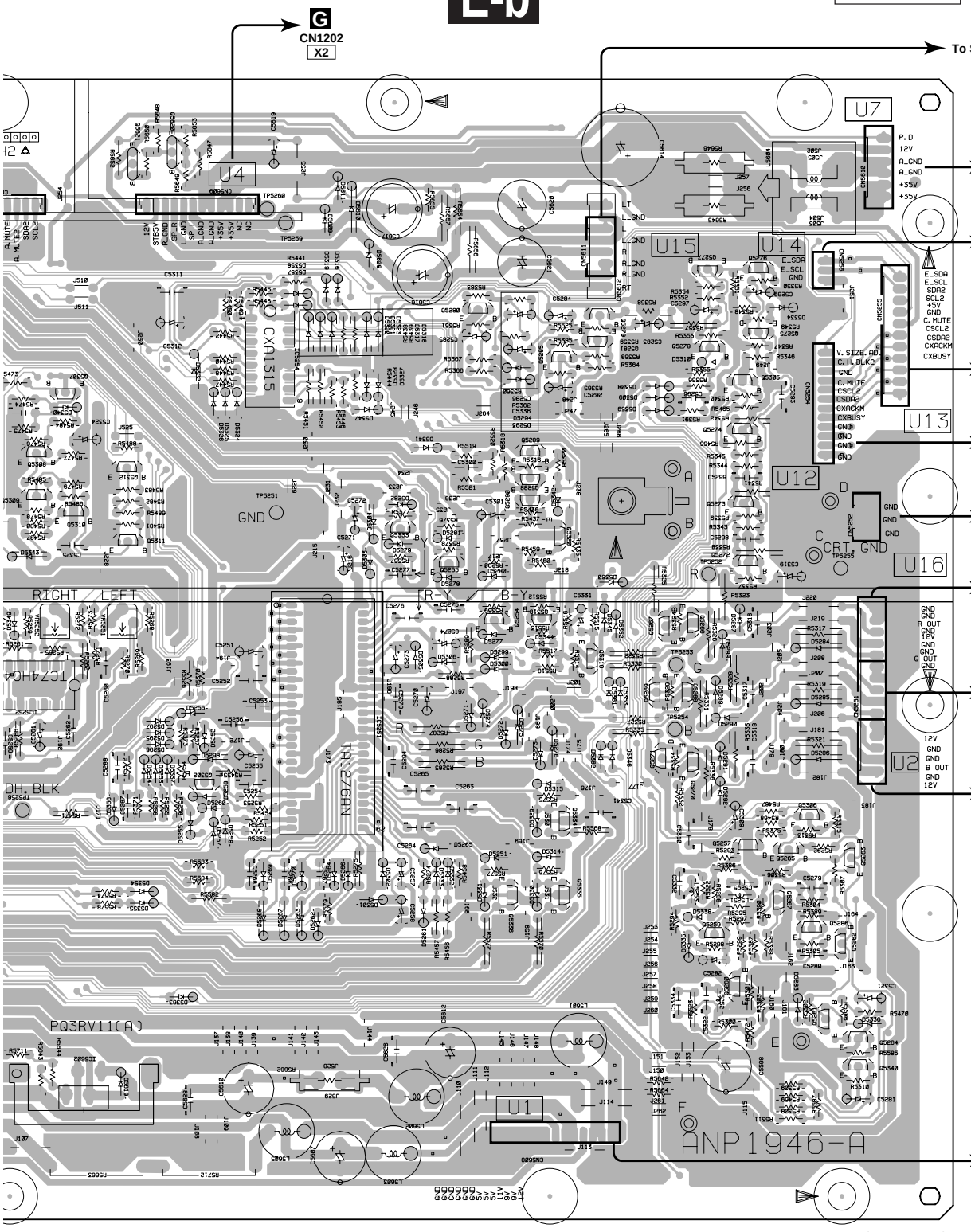
4.3 VIDEO ASSY

E-a

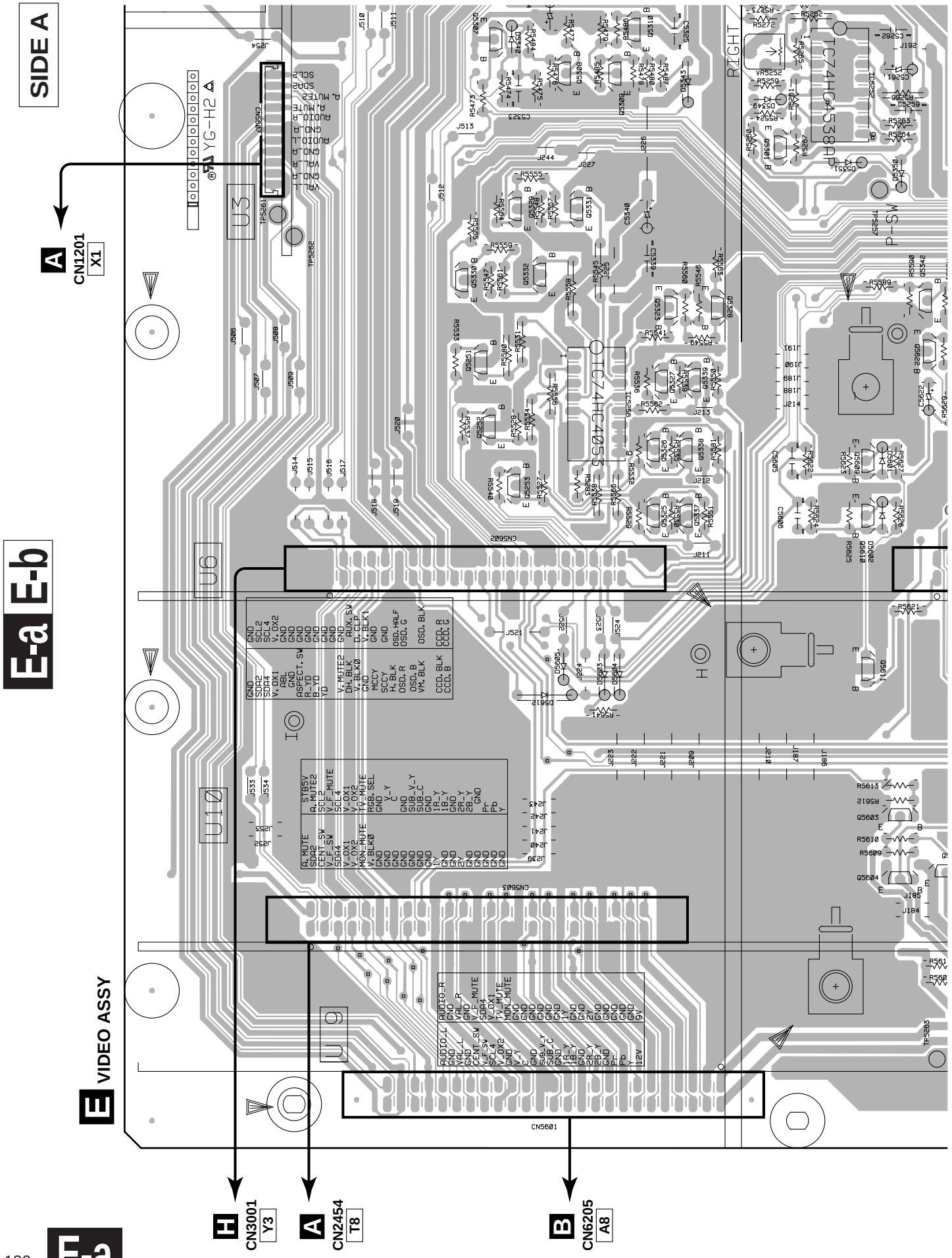


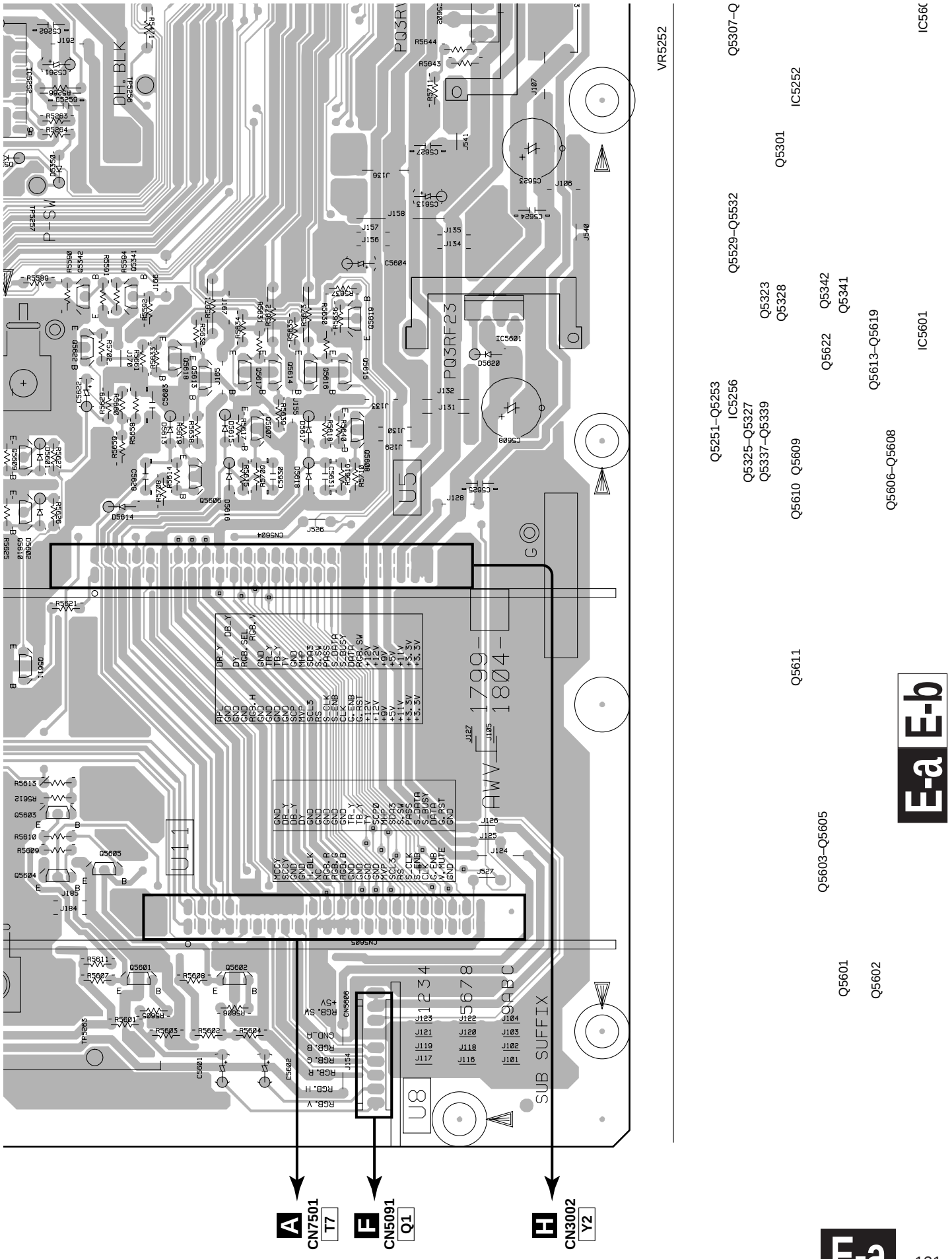
E-b

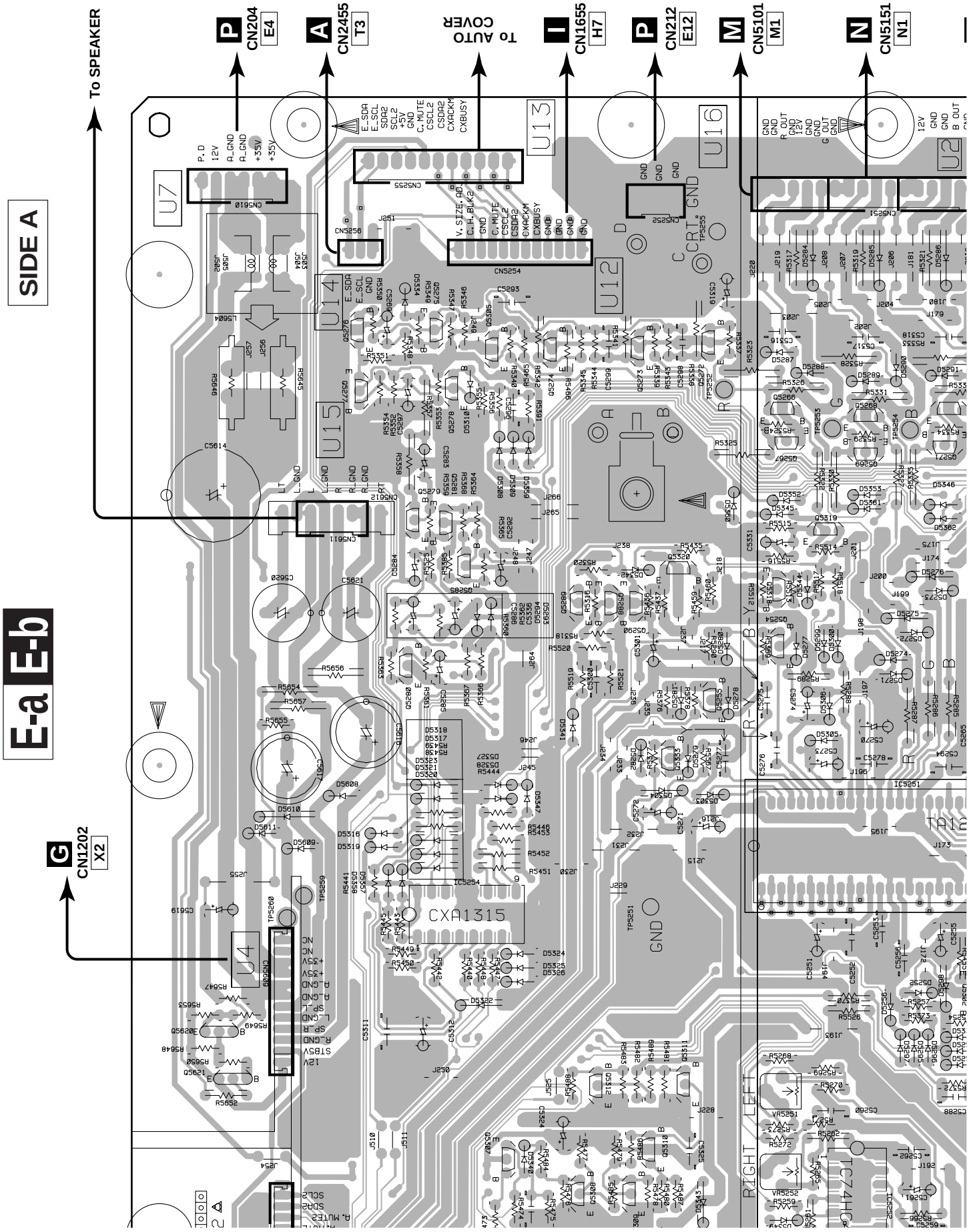
SIDE A

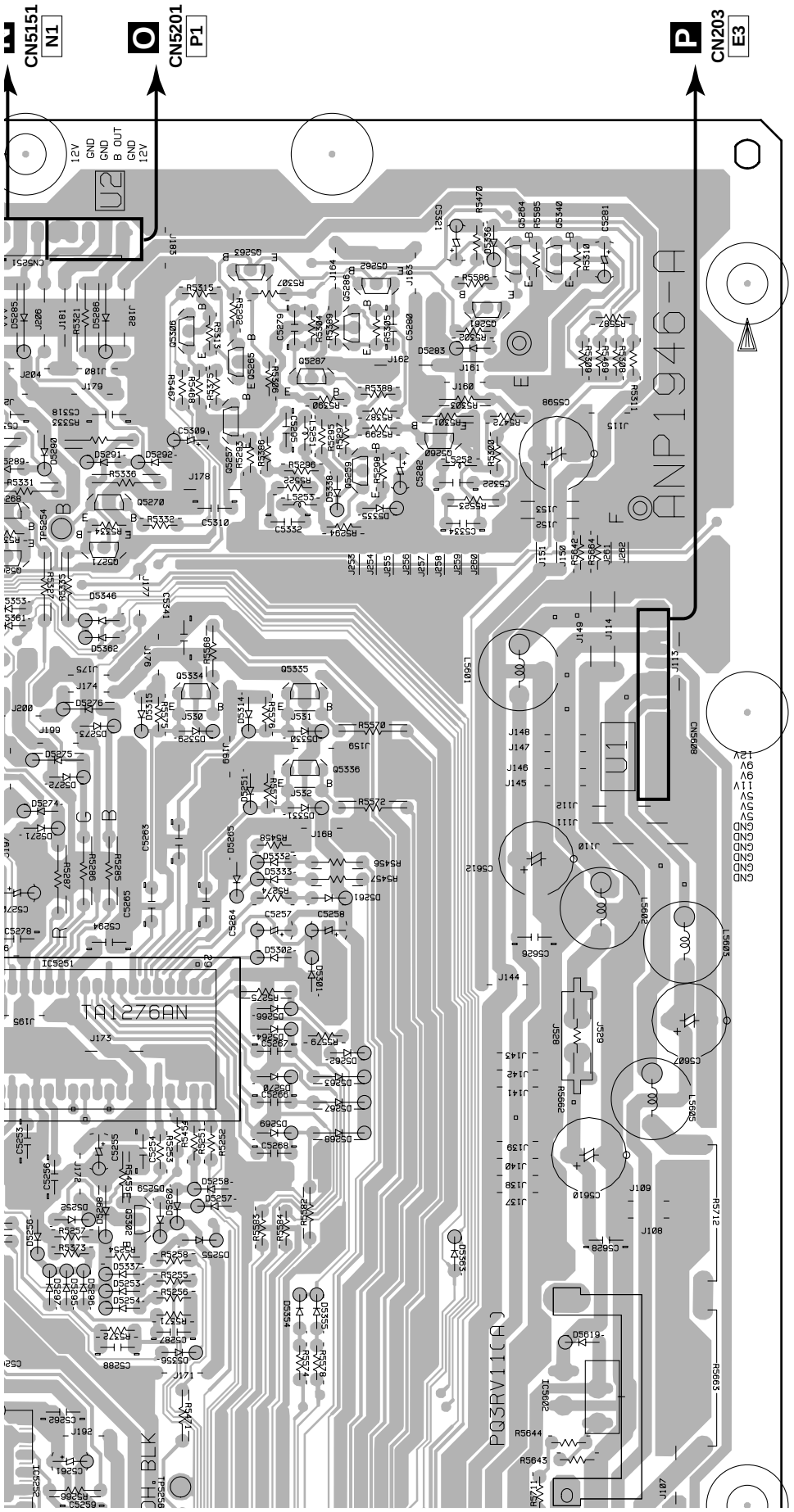


VR5252 VR5251
Q5621 Q5620
IC5254
Q5307–Q5312
Q5280 Q5279 Q5281 Q5275–Q5278
Q5285 Q5305
Q5288–Q5290 Q5274
Q5333 Q5273
Q5320 Q5272
Q5255
IC5252 Q5254 Q5318 Q5319 Q5266–Q5269
IC5251
Q5271 Q5270
Q5302 Q5334 Q5257 Q5265 Q5306
Q5263
Q5336 Q5335 Q5287
Q5259 Q5286 Q5262
Q5260 Q5261
IC5602 Q5340 Q5264

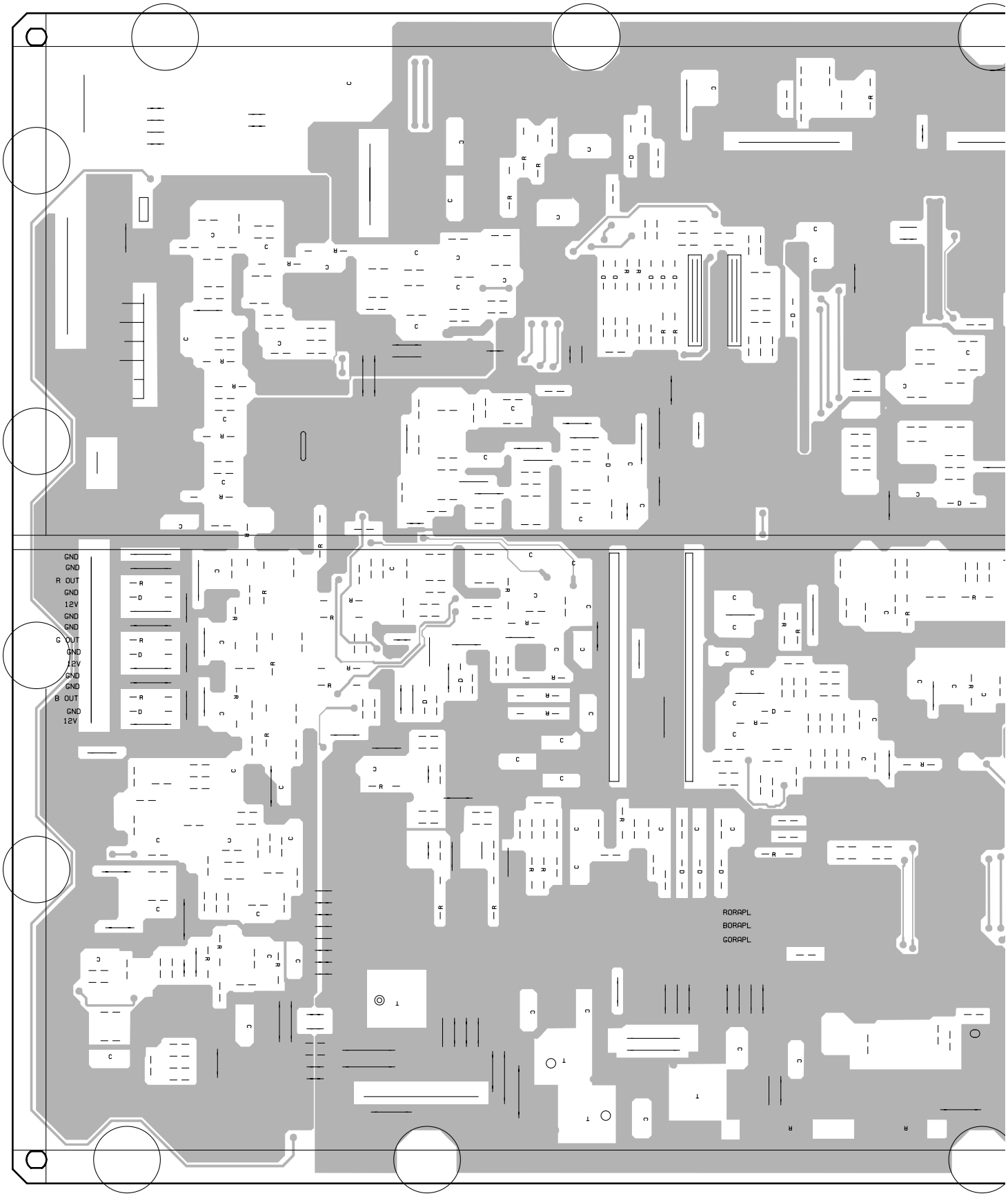

SIDE A
E-a E-b
E VIDEO ASSY
A CN1201 X1
H CN3001 Y3
A CN2454 T8
B CN6205 A8
U3
U6
U10
U9
U5
TC74HC4053AF
TC74HC4052AF
TC74HC4053AF
P-SW
RIGHT


A
CN7501
T7
F
CN5091
Q1
H
CN3002
Y2
E-a
E-b

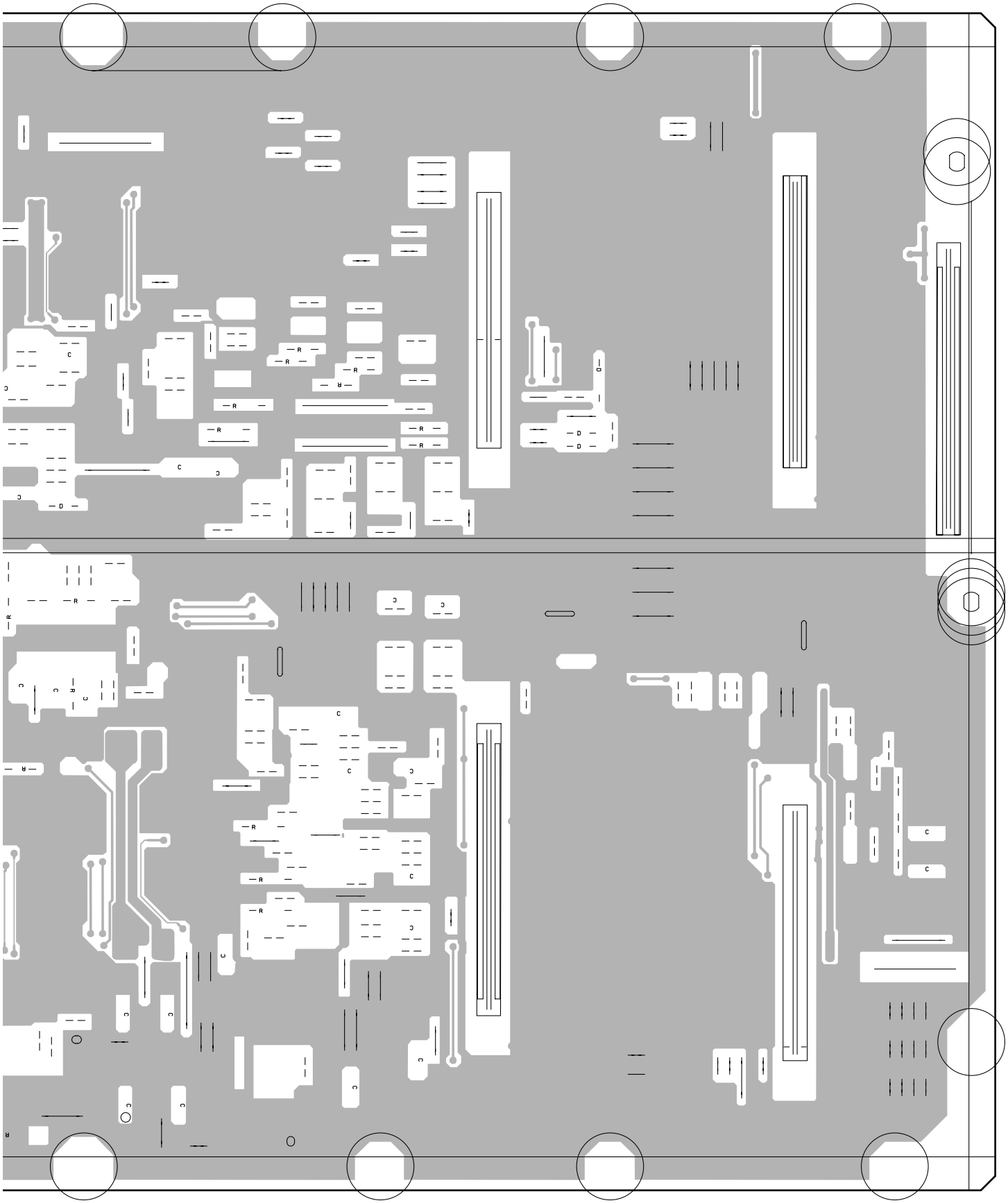

SIDE A
E-a E-b
To SPEAKER
P CN204 E4
A CN2455 T3
To AUTO COVER
I CN1655 H7
P CN212 E12
M CN5101 M1
N CN5151 N1
G CN1202 X2
CXA1315
TC74HC
RIGHT
LEFT


CN5151
N1
CN5201
P1
CN203
E3
(ANP1946–A)
Q5275–Q5278
Q5305
Q5274
Q5273
Q5272
Q5306
Q5263
Q5265
Q5262
Q5286
Q5261
Q5340
Q5264
Q5287
Q5257
Q5259
Q5260
Q5271
Q5270
Q5281
Q5266–Q5269
Q5279
Q5285
Q5288–Q5290
Q5320
Q5318
Q5319
Q5334
Q5335
Q5336
Q5280
Q5254
Q5255
Q5333
IC5251
IC5254
Q5307–Q5312
C5252
Q5621
Q5620
VR5251
VR5252
Q5302
IC5602
E-a
E-b

E VIDEO ASSY


GND
GND
R OUT
GND
12V
GND
GND
G OUT
GND
12V
GND
GND
B OUT
GND
12V
RORAPL
BORAPL
GORAPL

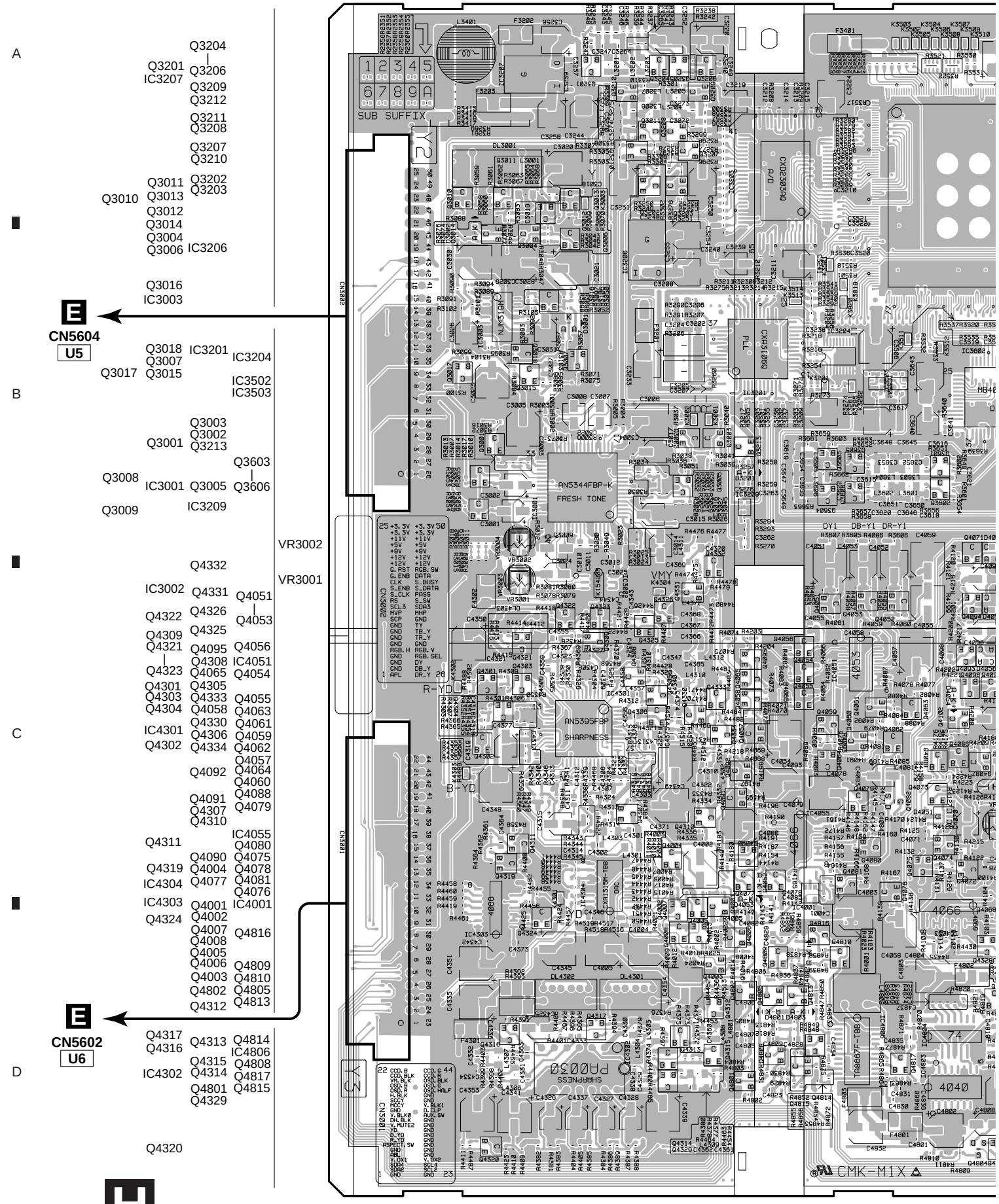
SIDE B

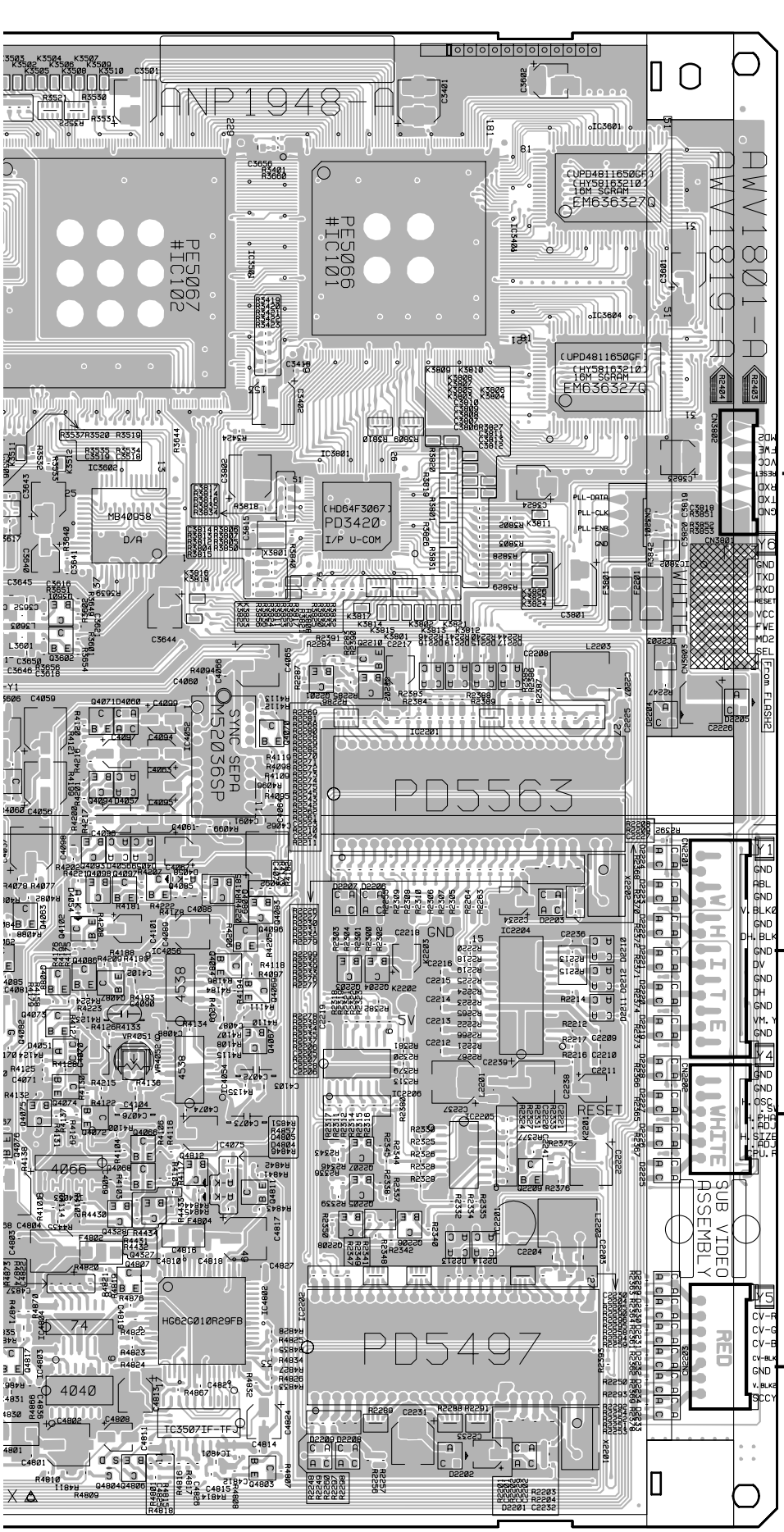


(ANP1946–A)

4.4 SUB VIDEO SERVICE ASSY (For PRO-610HD, PRO-510HD)

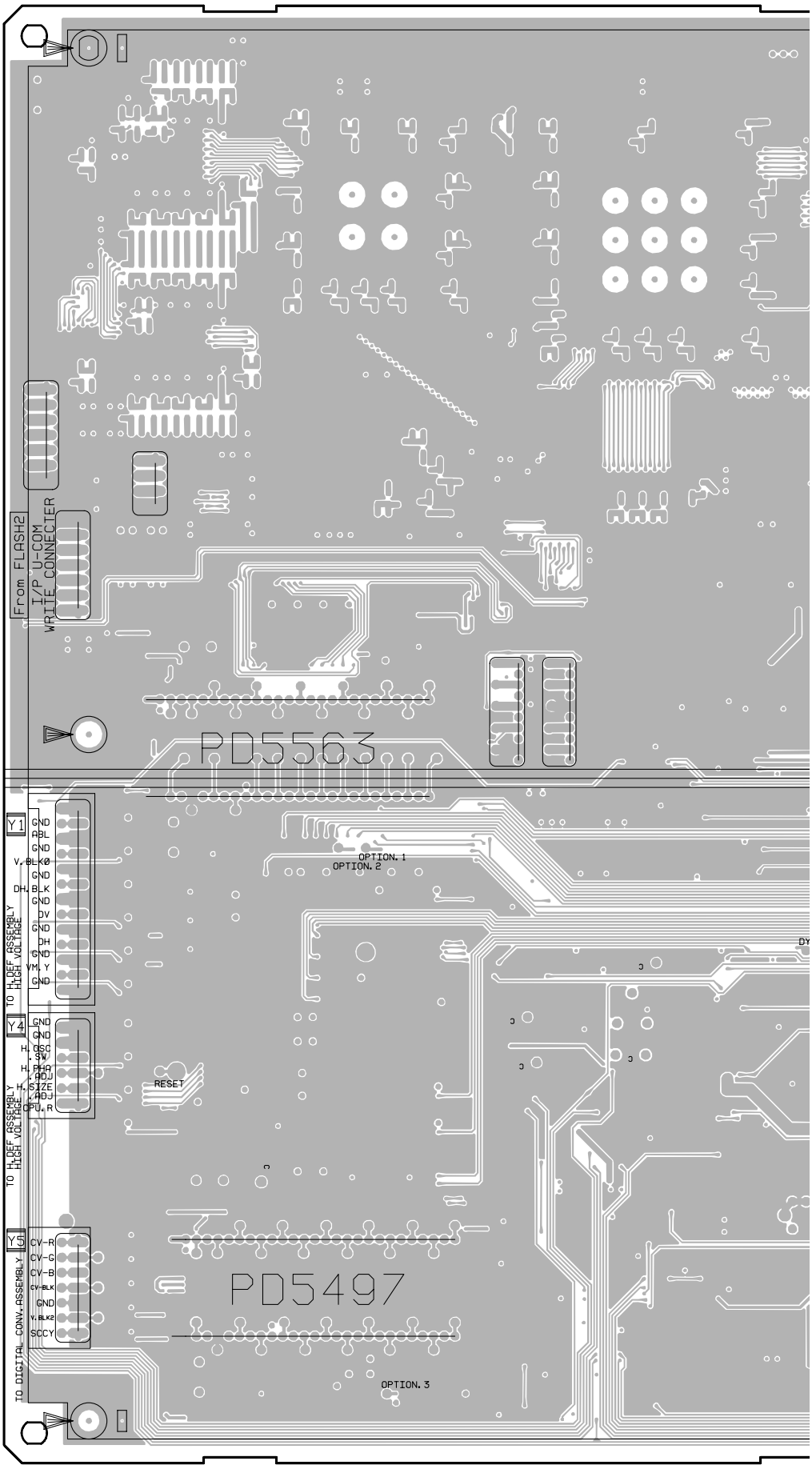
H SUB VIDEO SERVICE ASSY



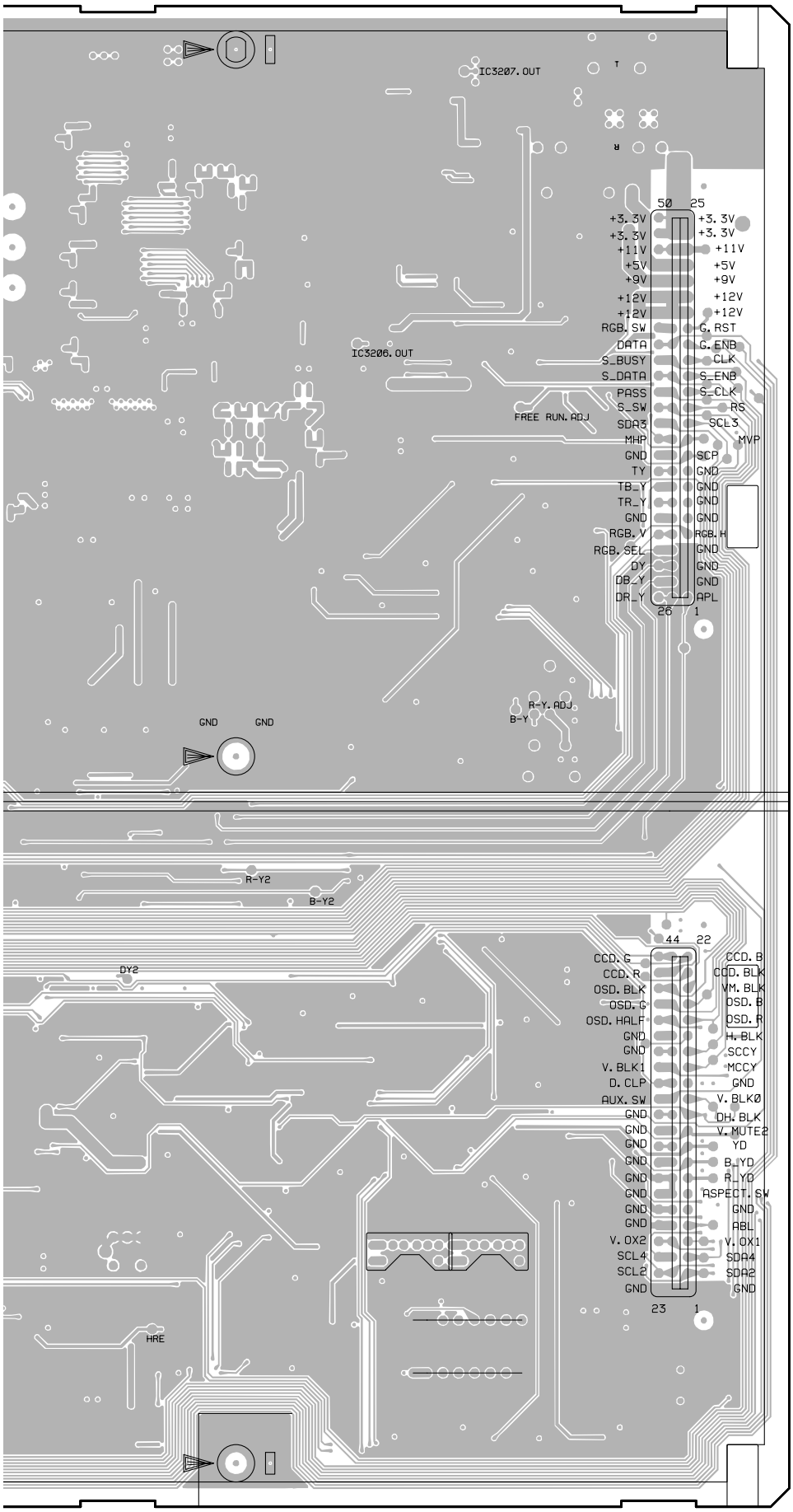

SIDE A
IC3601
IC3401
IC3501
IC3604
To FLASH 2 I/PU-COM WRITE CONNECTOR
IC3602
IC3801
IC3802
Q3601
Q3602
Q2210
IC2203
Q2201
Q2202
Q4071
Q4070
IC2201
Q4094
L
CN305
K6
Q4093
Q4089
Q4098
Q4097
Q4085
Q4102
Q4083
Q4096
Q4086
Q4084
Q2203
Q4087
Q2204
IC4056
Q4069
IC2204
Q4073
Q4067
VR4051
IC4054
IC2206
Q4074
L
CN308
K2
Q4072
Q4066
Q2207
IC2205
IC4053
Q2205
Q2209
Q4812
Q4811
Q4068
Q4327
Q4328
Q2208
Q2206
Q4807
IC4802
IC4804
IC2202
I
CN1653
H6
IC4803
IC4801
Q4806
Q4803
Q4804
ANP1948-A
AWV1801-A
AWV1819-A
PD5563
PD5497
PD3420
I/P U-COM
SUB VIDEO ASSEMBLY
WHITE
RED
From FLASH2

(ANP1948–A)

H SUB VIDEO SERVICE ASSY



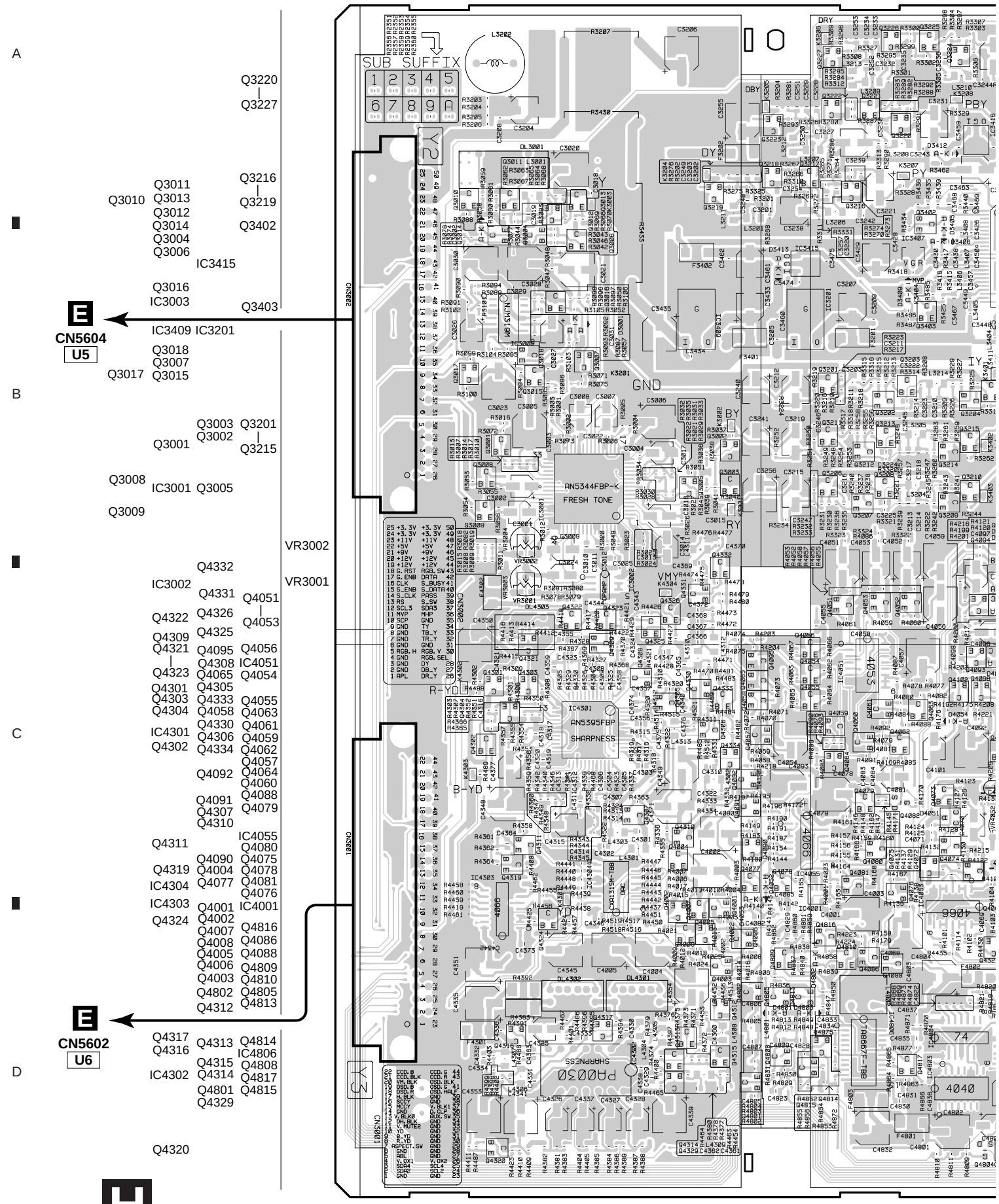
SIDE B

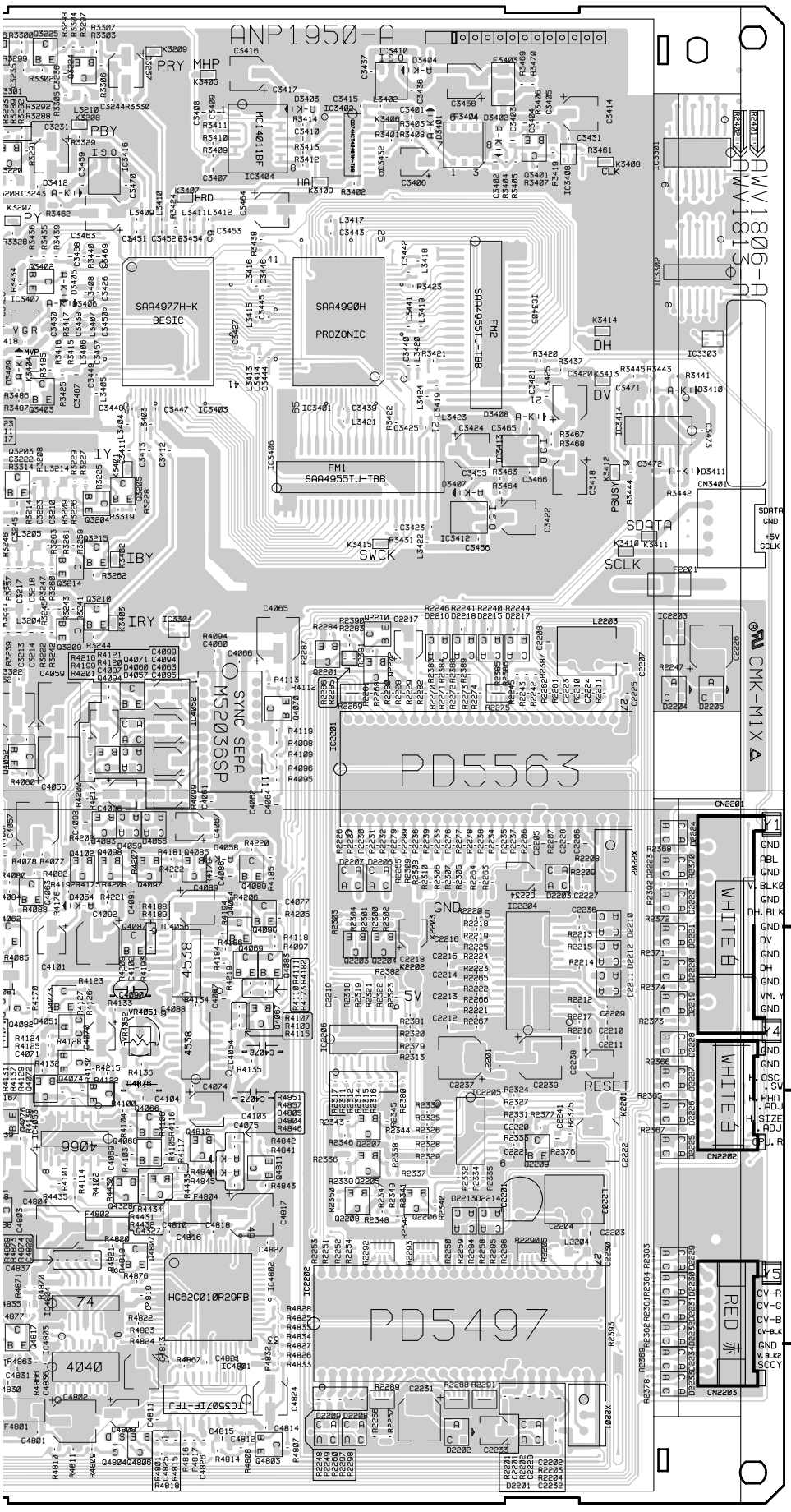


(ANP1948–A)

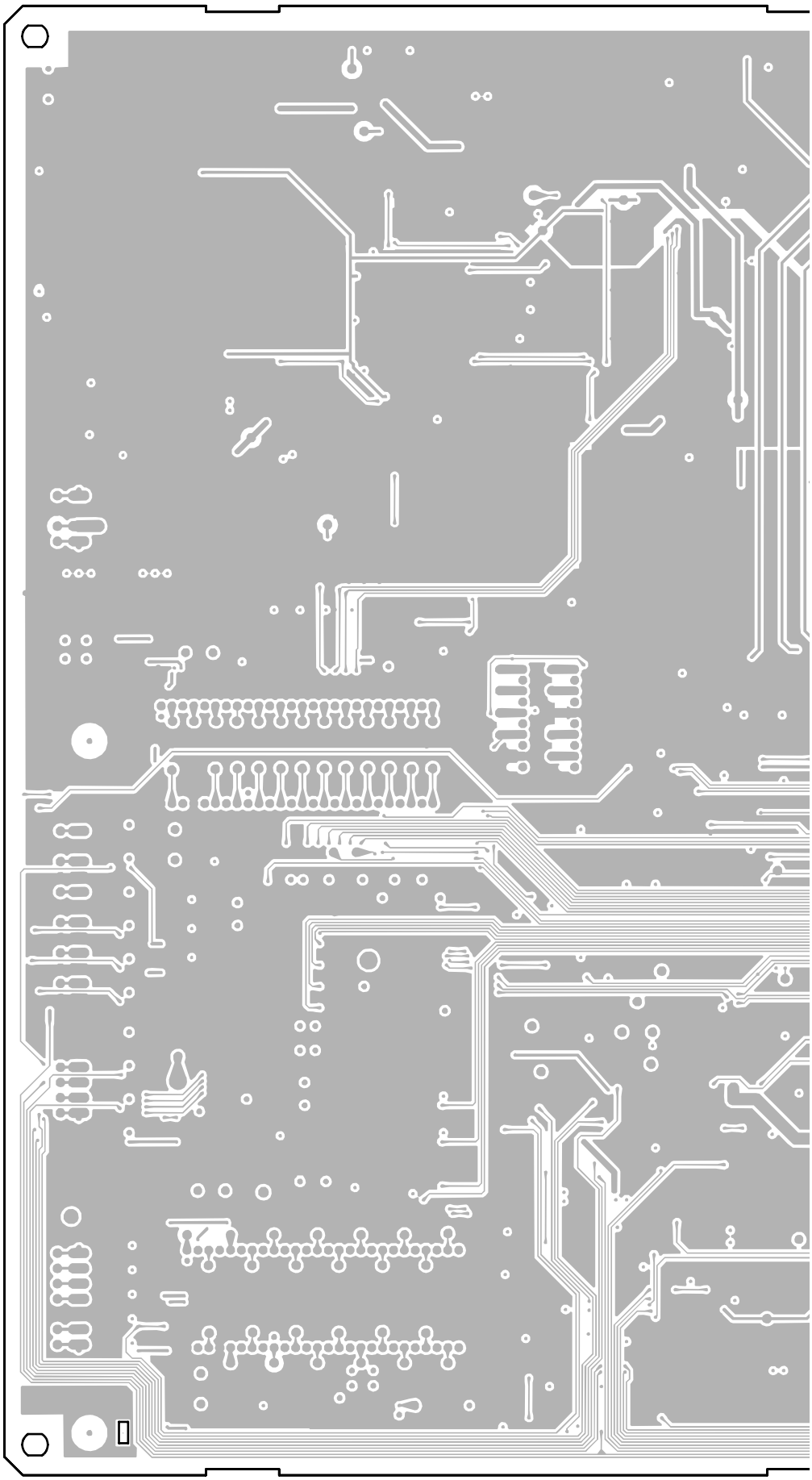
4.5 SUB VIDEO ASSY (For SD-582HD5, SD-532HD5)

H SUB VIDEO ASSY

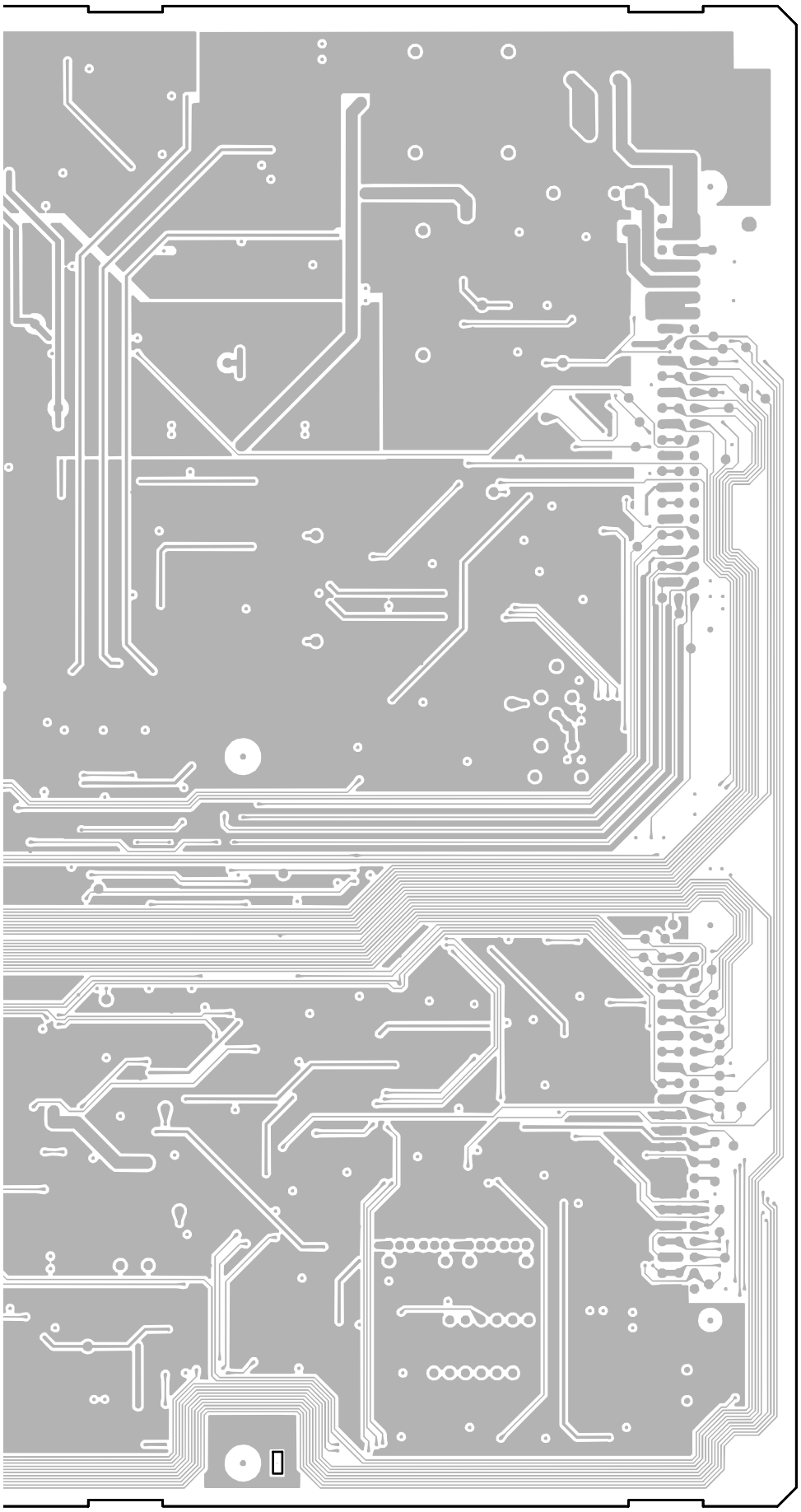



ANP1950-A
SIDE A
IC3404 IC3402 Q3401 IC3301
IC3302
IC3403 IC3401 IC3405 IC3303
IC3414
IC3406
IC3412
IC3304 Q2210 IC2203
Q2201
Q2202
Q4071 Q4070
IC4052
IC2201
Q4094
L
CN305
K6
Q4093
Q4089
Q4098
Q4097 Q4083
Q4085
Q4102 Q4096
Q4086 Q4084 Q2203
Q4087 Q2204
IC4056 Q4069 IC2204
Q4073
Q4067
VR4051 IC2206
IC4054
Q4074
L
CN308
K2
Q4072
Q4066 Q2207 IC2205
IC4053 Q2205 Q2209
Q4812 Q4811
Q4068
Q4327 Q2208
Q4328 Q2206
Q4807
IC4802
IC4804
IC2202
I
CN1653
H6
IC4803
IC4801
Q4806 Q4803
Q4804
PD5563
PD5497
SAA4977H-K
BESIC
SAA4990H
PROZONIC
FM1
SAA4955TJ-TBB
SAA4951J-1B8
M52036SP
SYNC SEPA
HG62G010R29FB
IC74LCX4245M
IC74LCX4245M
IC74LCX4245M

SUB VIDEO ASSY



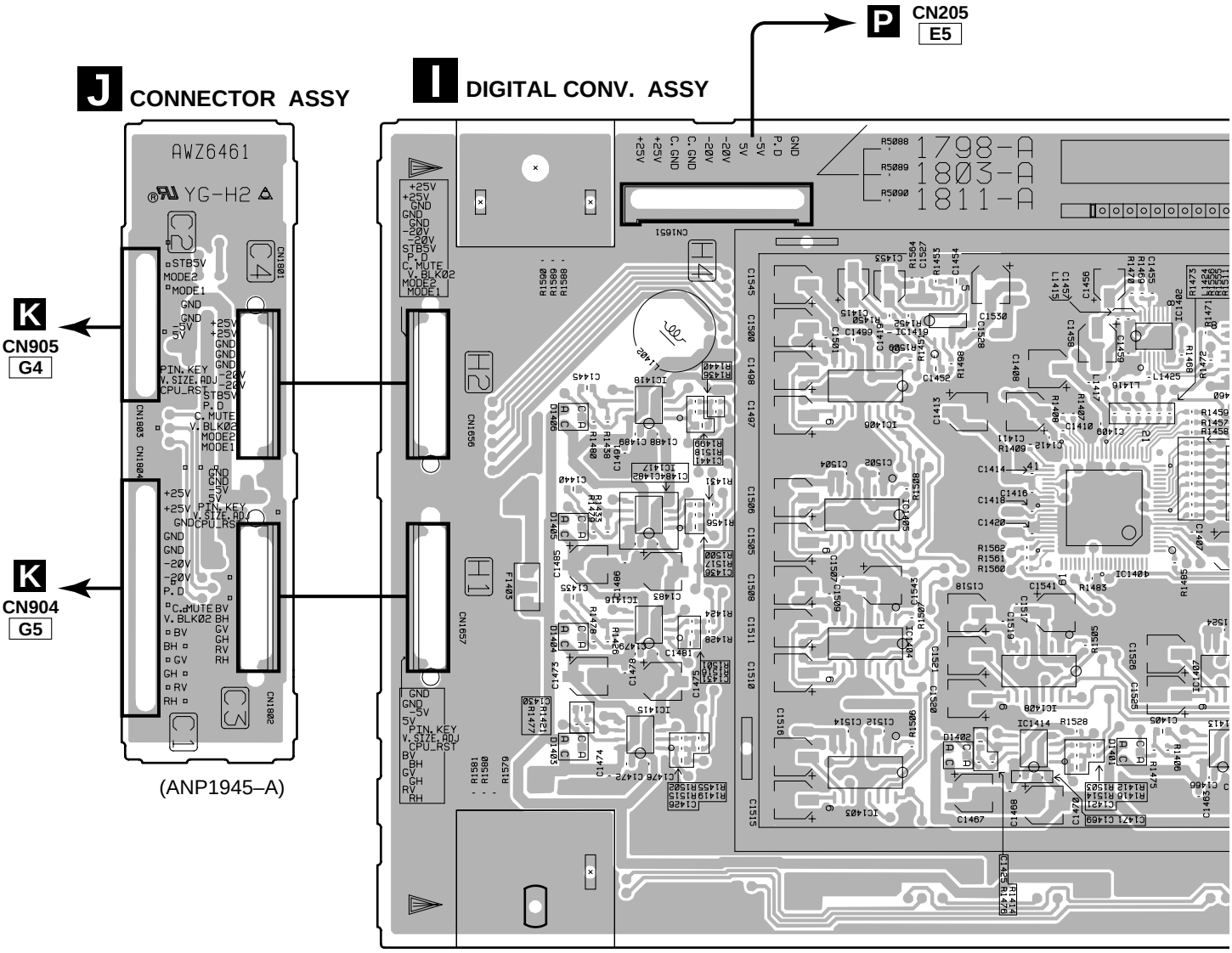
SIDE B



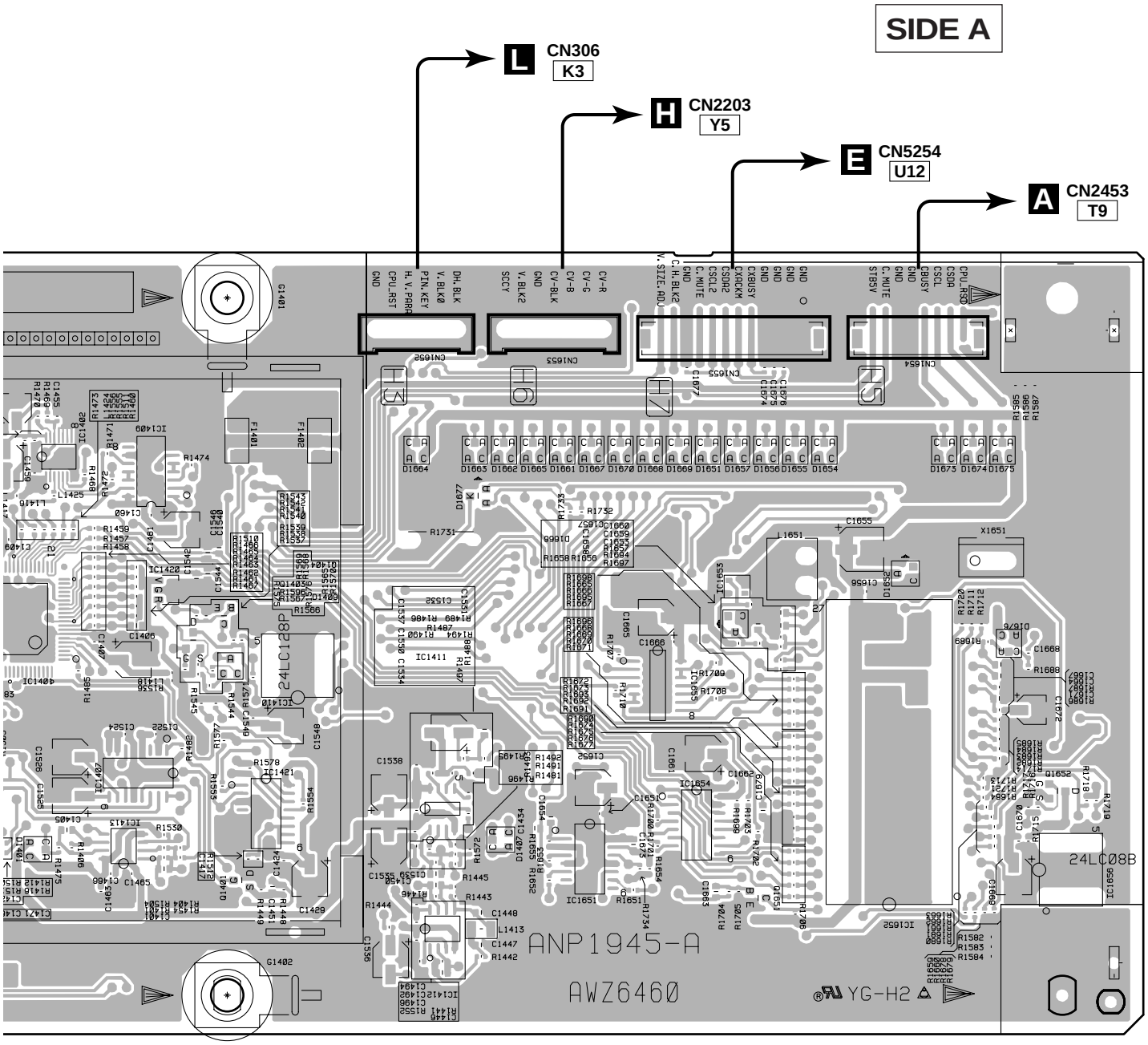
(ANP1950–A)

4.6 DIGITAL CONV. ASSY and CONNECTOR ASSY

SIDE A



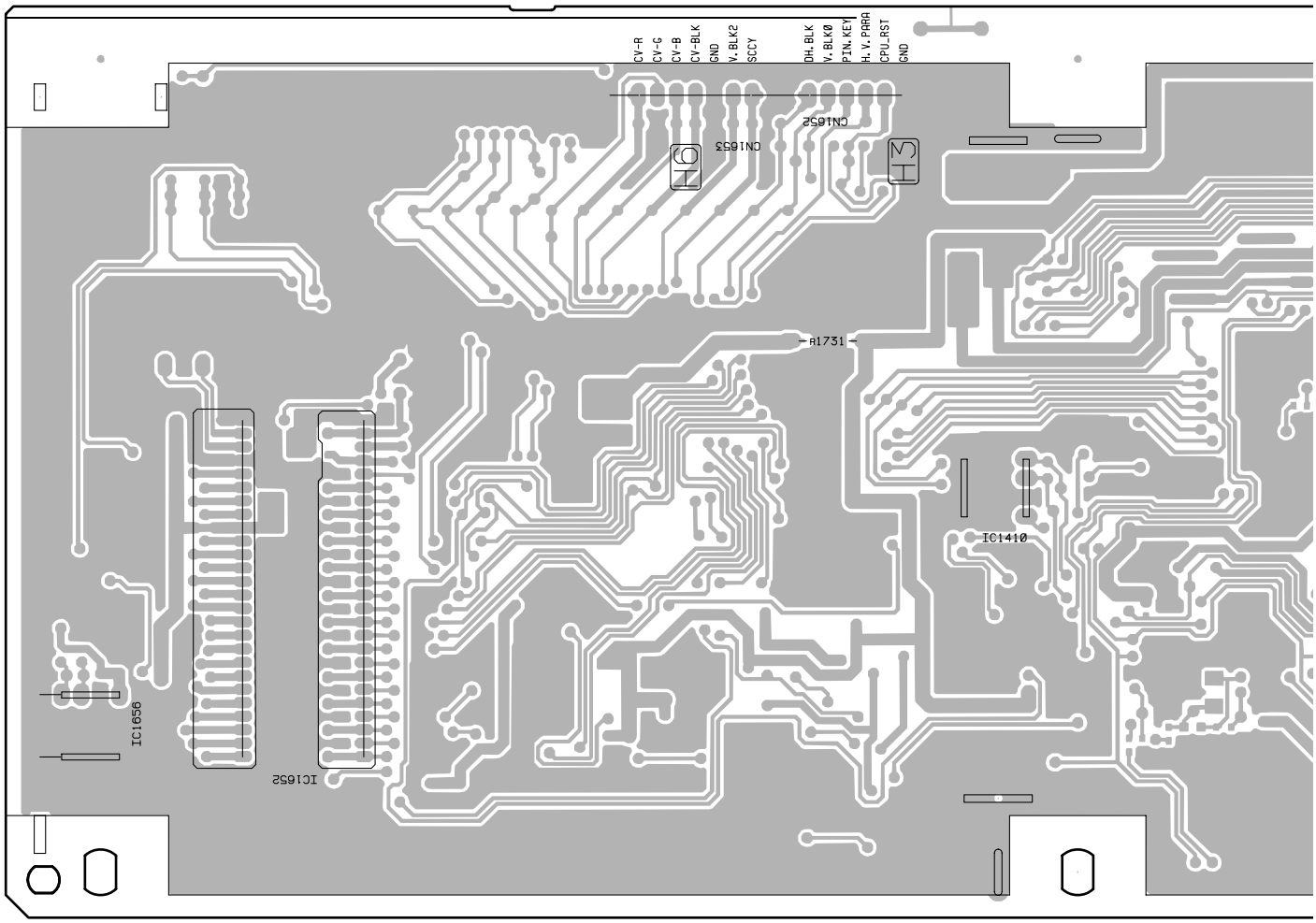
IC1406 IC1419 IC1402
IC1418 IC1405 IC1401
IC1417 IC1404
IC1416 IC1408
IC1415 IC1403 IC1414



(ANP1945–A)

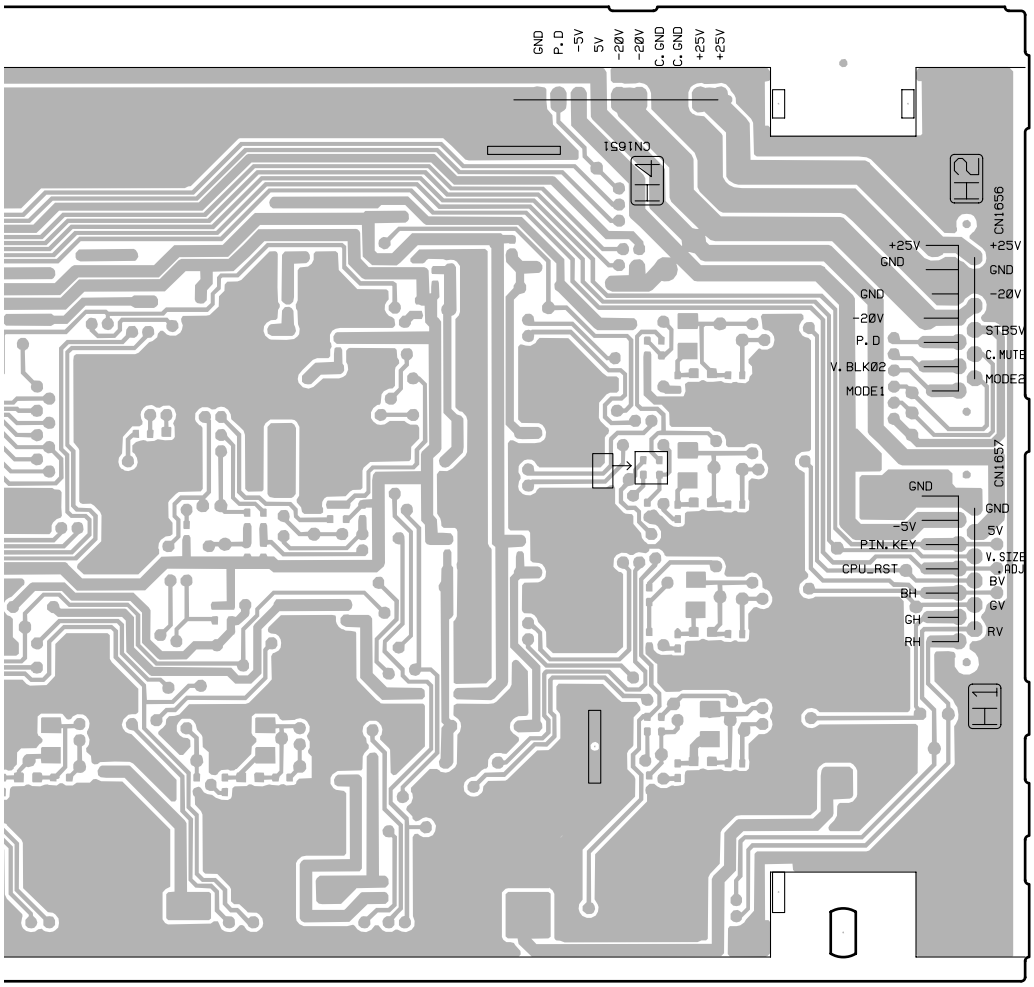
IC1402 IC1409
401 IC1420 Q1404 IC1653
Q1403 IC1410 IC1655 IC1652
IC1407
IC1413 Q1652
IC1421 IC1411 IC1651 IC1654 IC1656
Q1401 IC1412 Q1651

DIGITAL CONV. ASSY

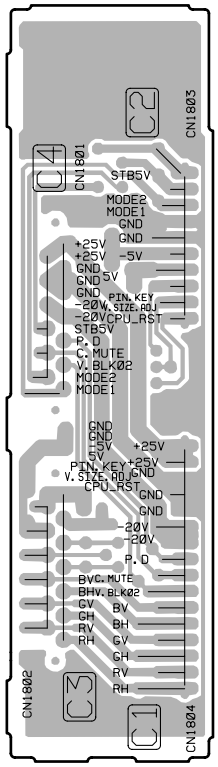


SIDE B

J CONNECTOR ASSY



(ANP1945–A)

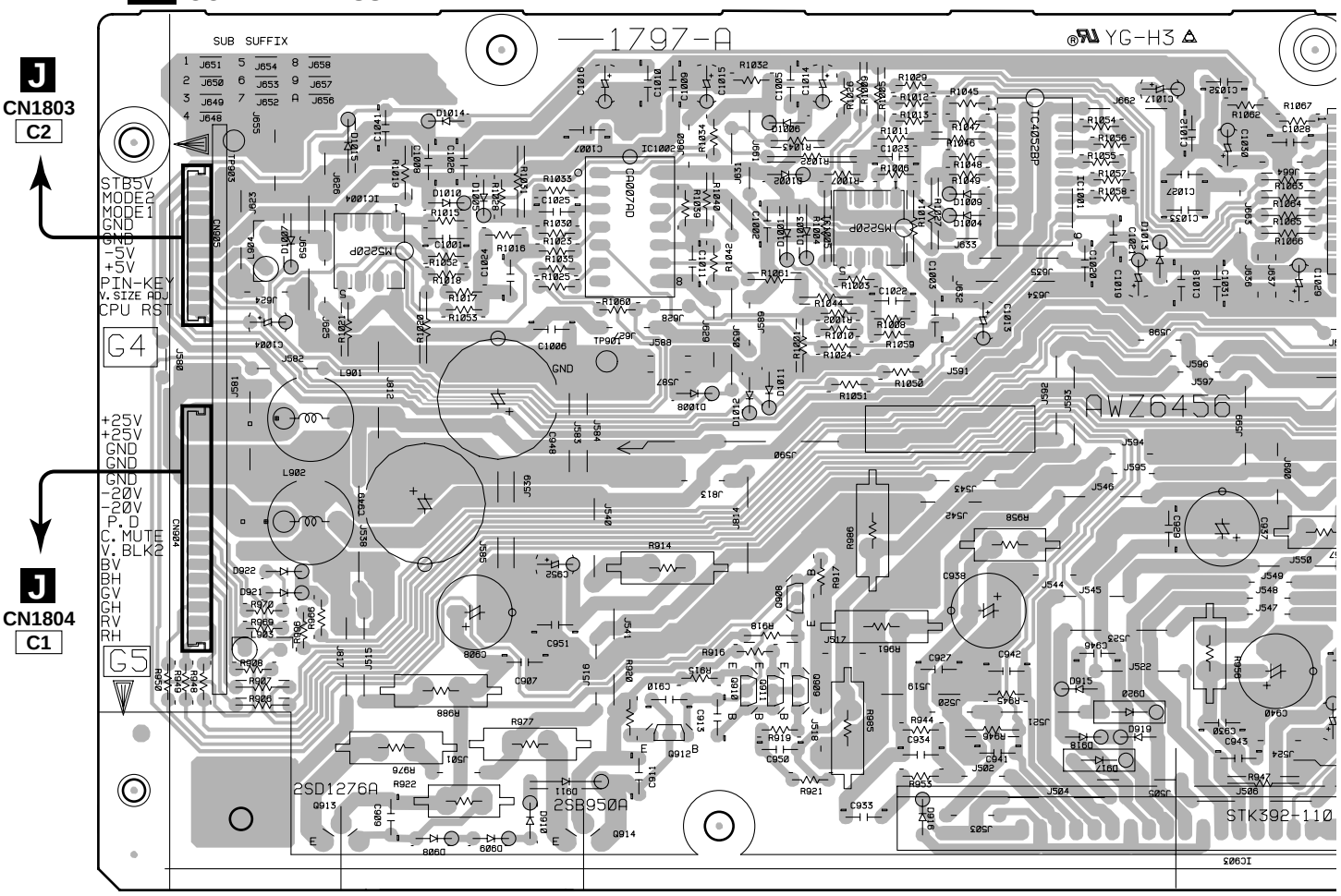


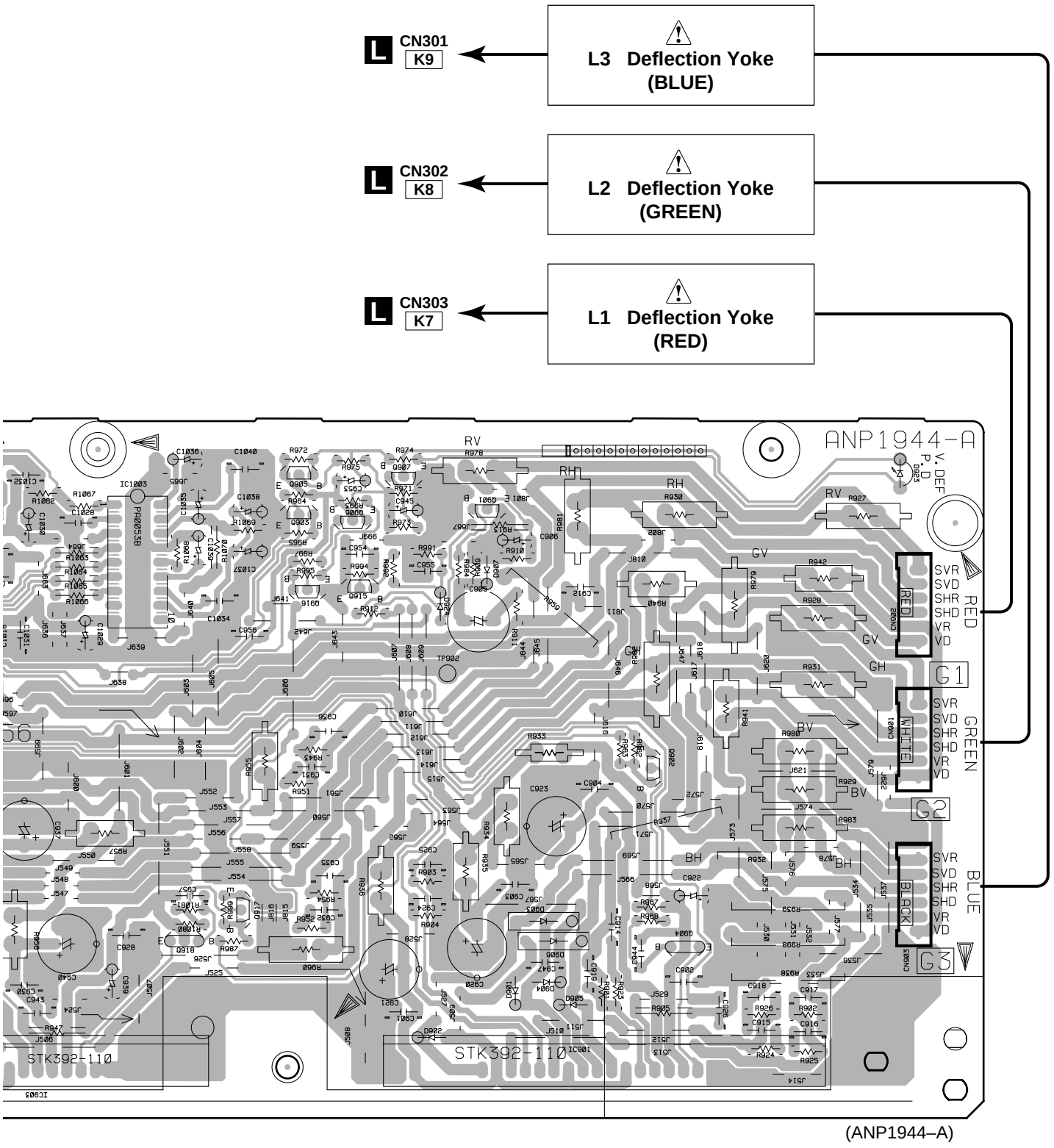
(ANP1945–A)

4.7 CONV. AMP ASSY

SIDE A

K CONV. AMP ASSY

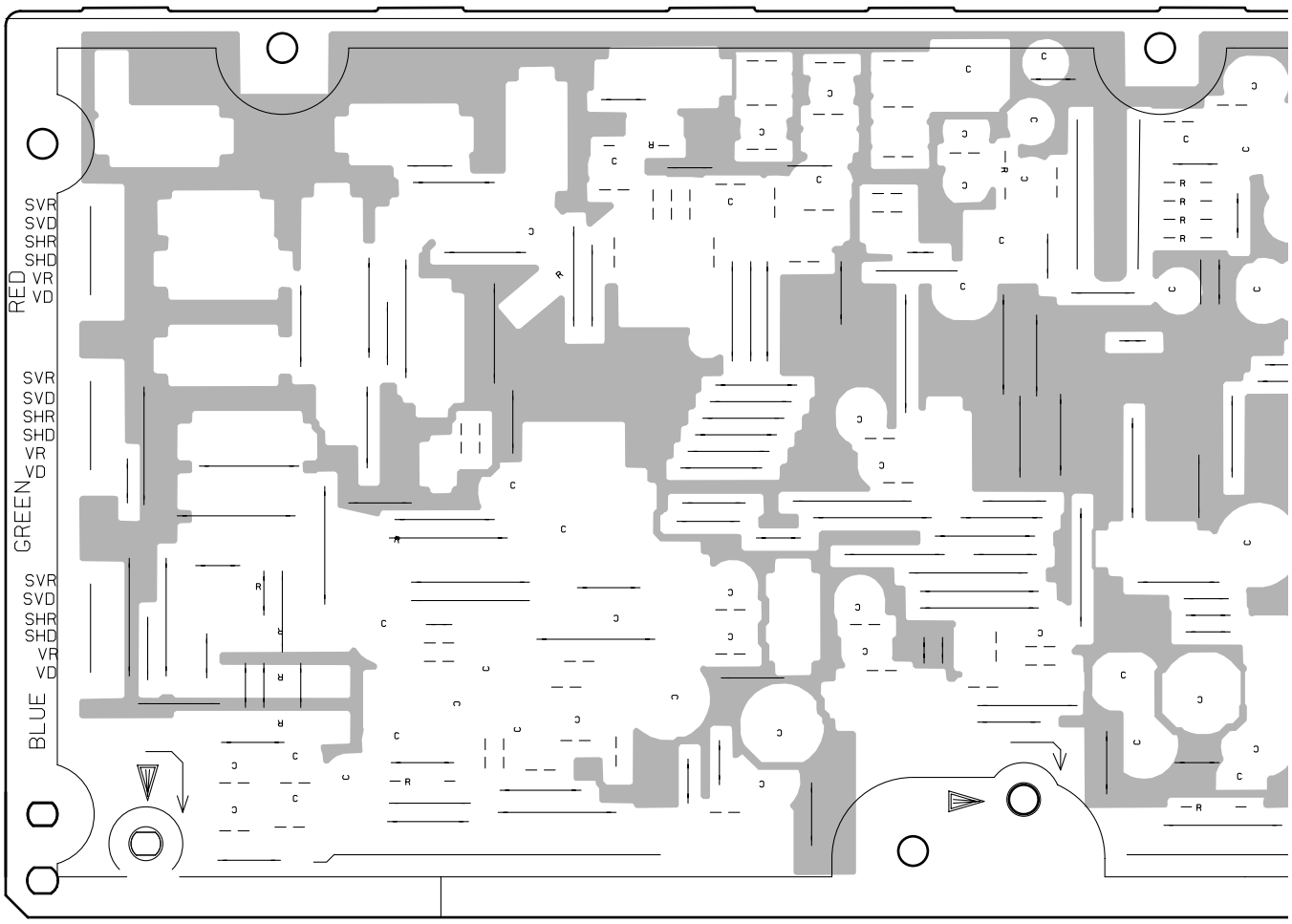




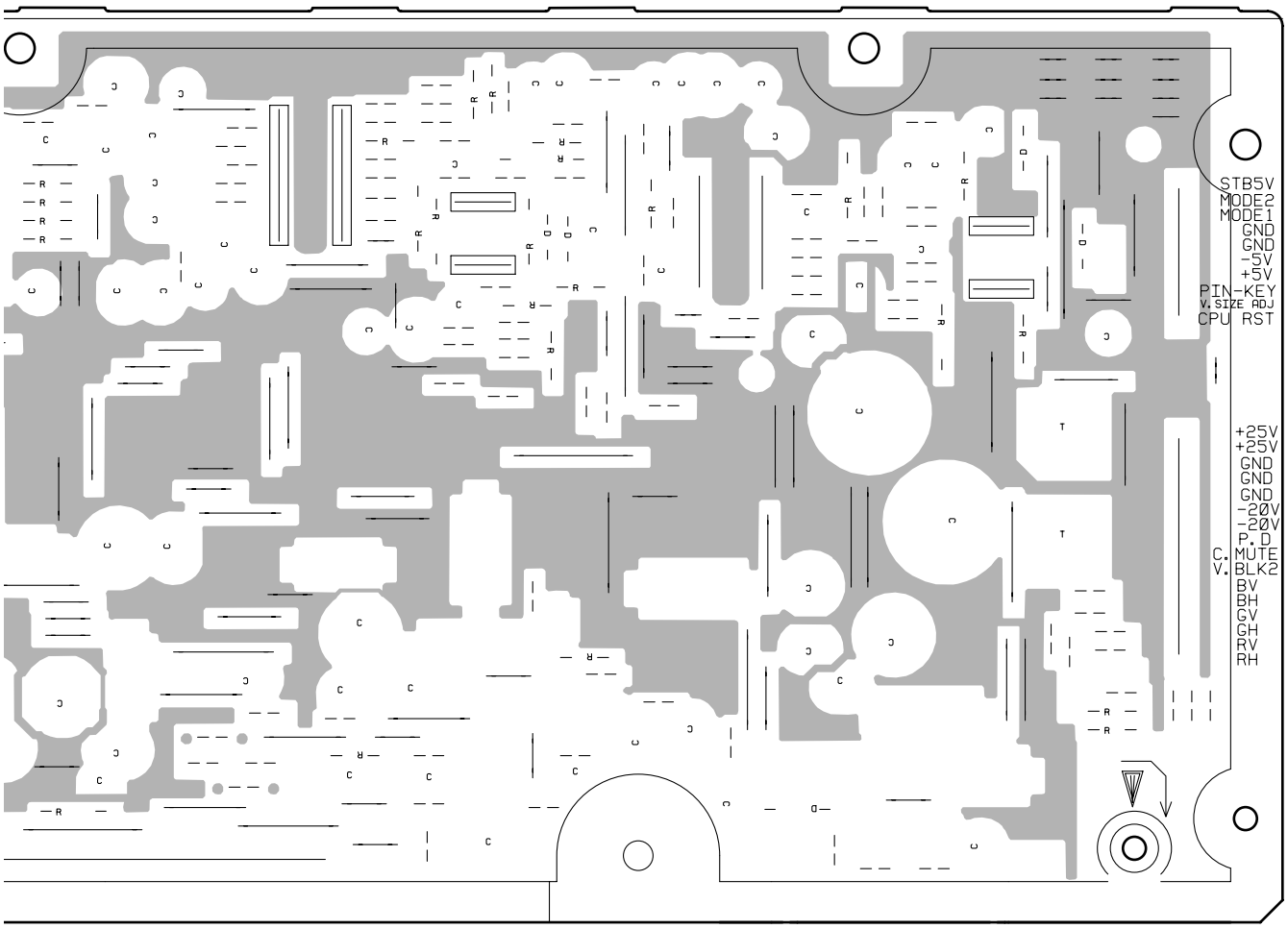
(ANP1944–A)

IC1003 Q903 Q905 Q916 Q906 Q915 Q907 Q901 Q902 Q918 Q917 Q904

K CONV. AMP ASSY



SIDE B



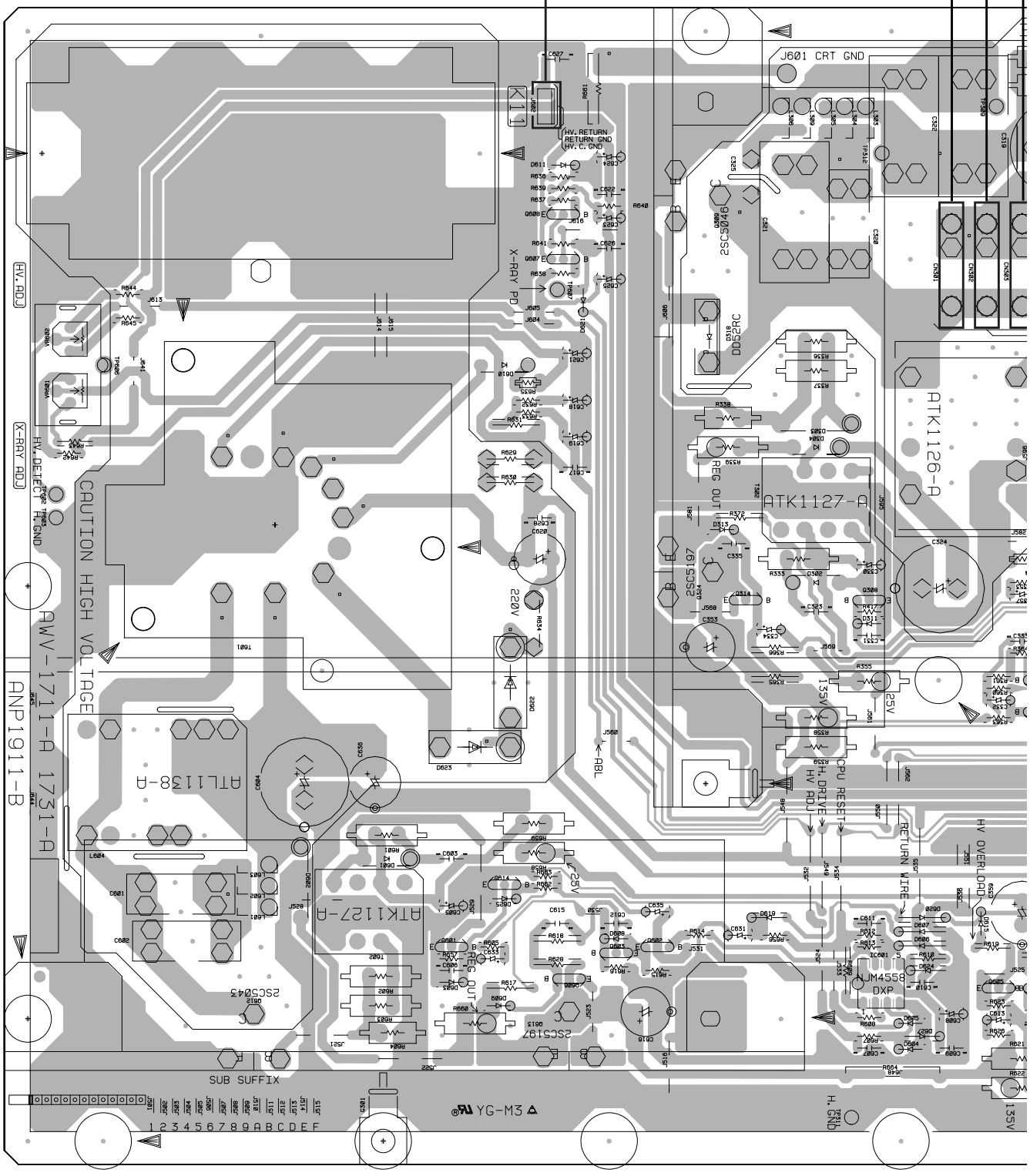
(ANP1944–A)

L-a

4.8 DEFLECTION SERVICE ASSY

H. V. CR BLOCK
RED CRT J12
GREEN CRT J13
BLUE CRT J14

L DEFLECTION SERVICE ASSY



VR601 VR602

Q607 Q608 Q309

Q324 Q314 Q308

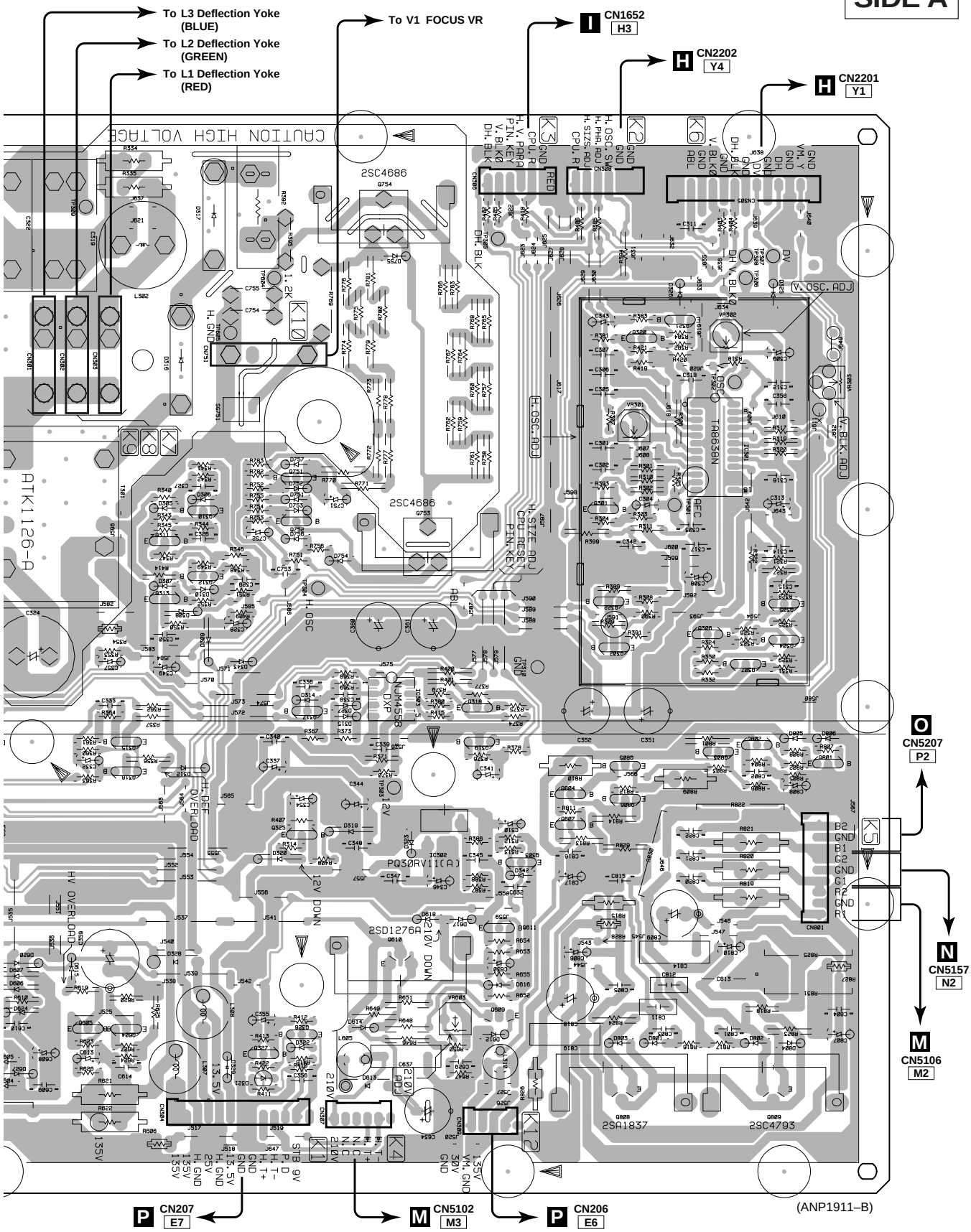
Q601 Q614

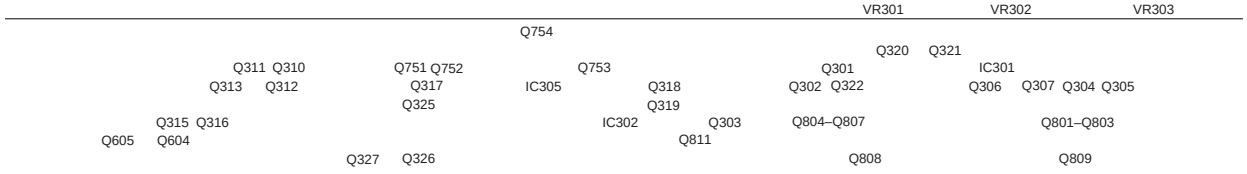
Q606 Q603 Q602 IC601 Q605

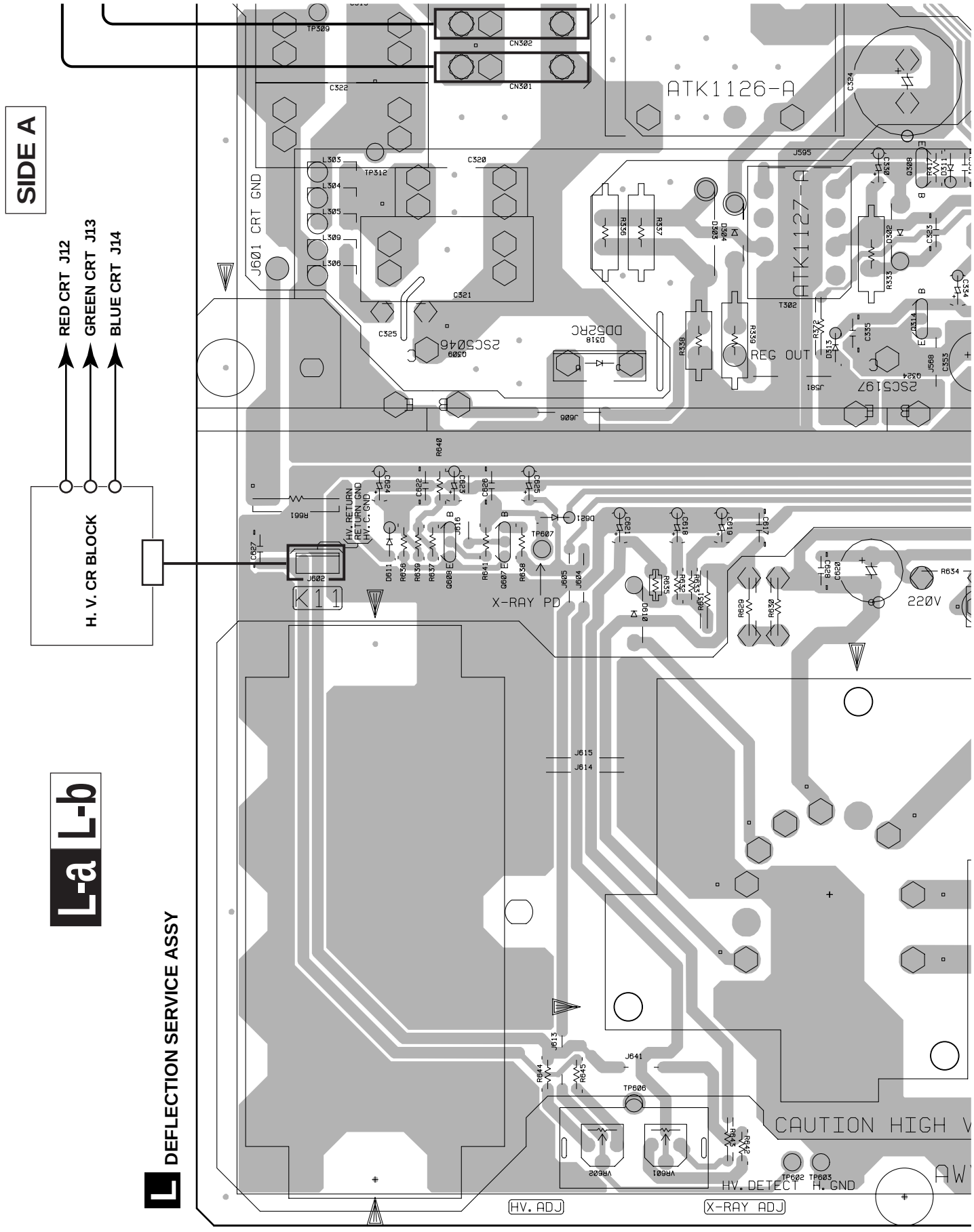
Q612 Q613

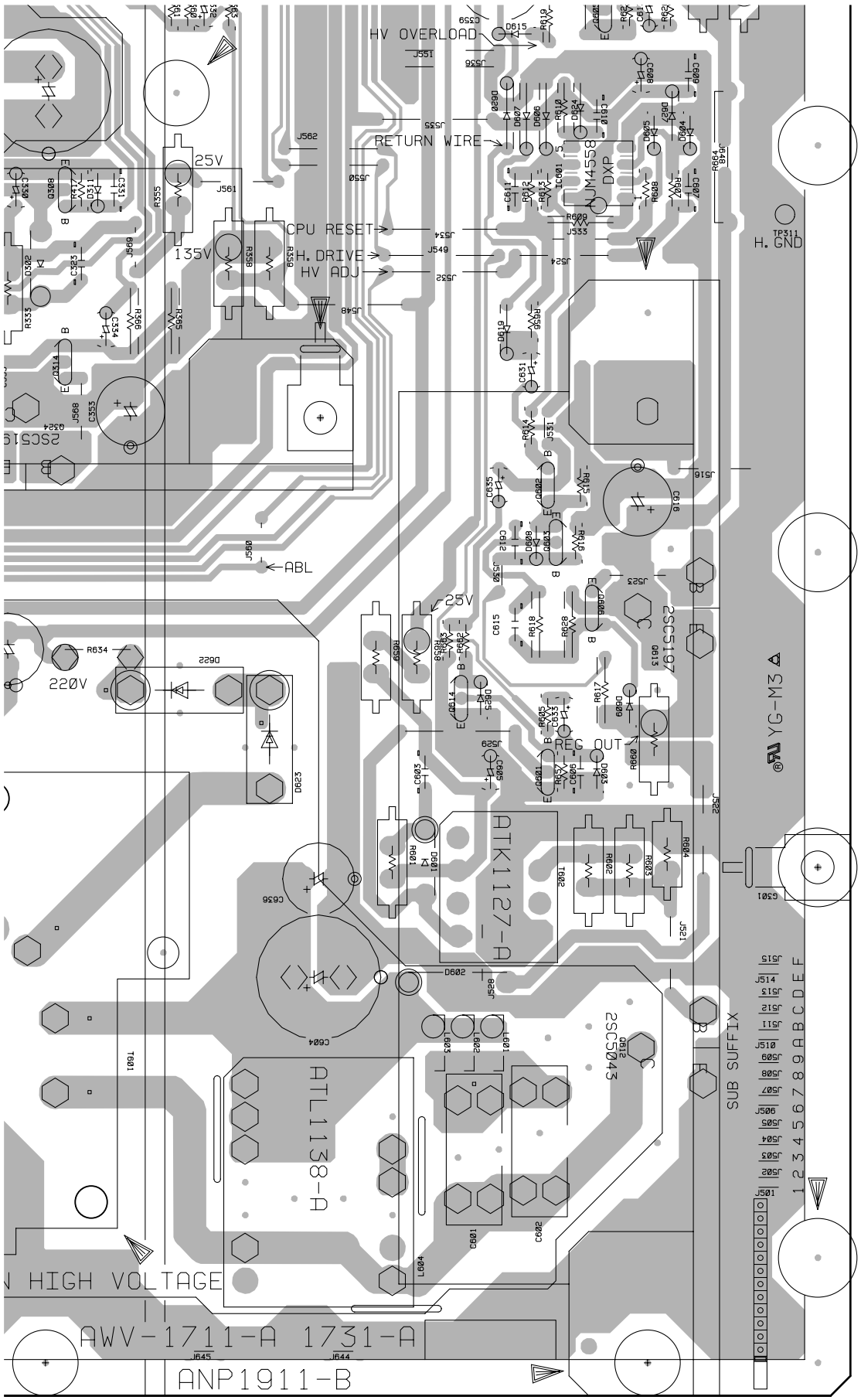
L-b

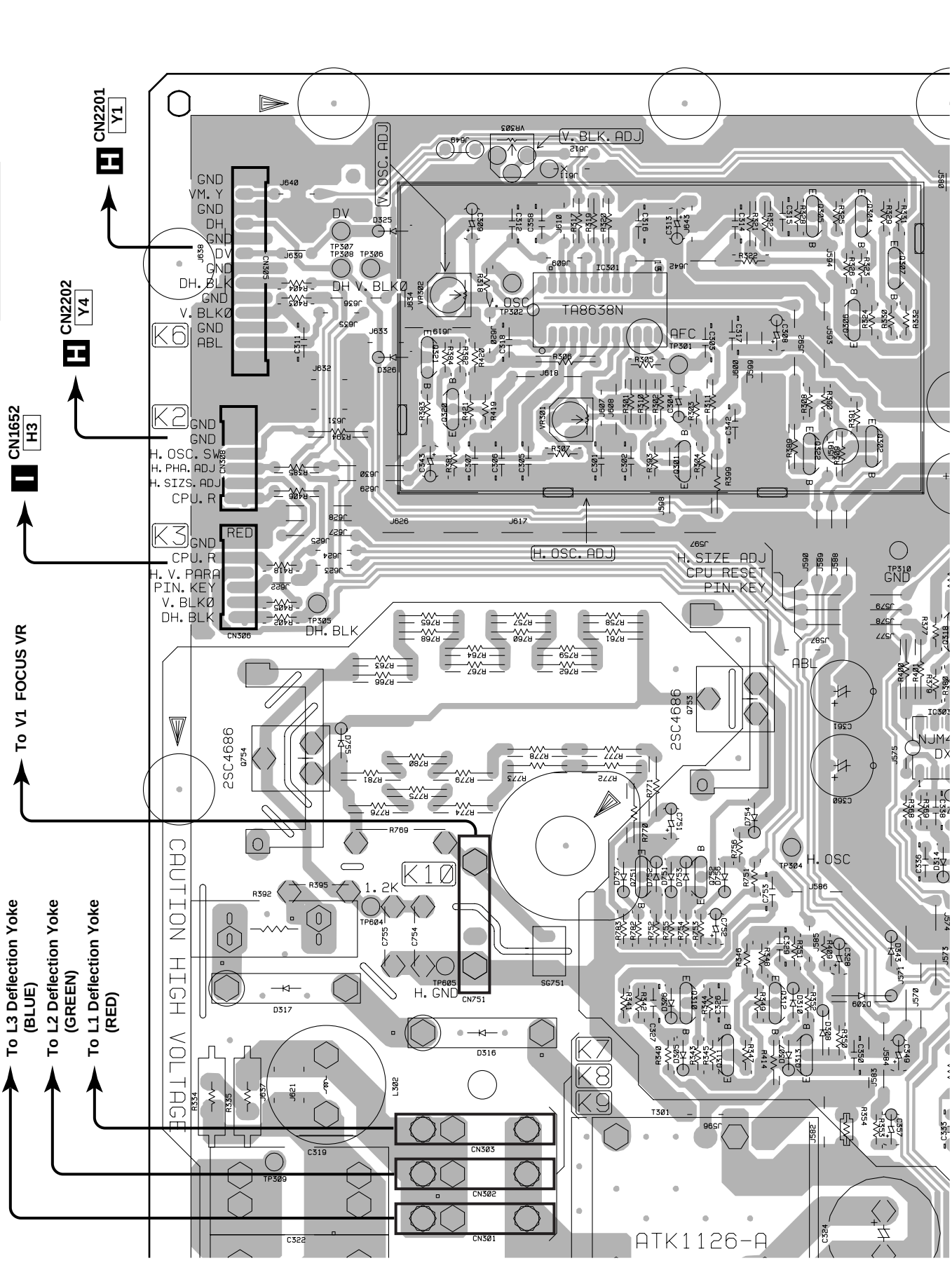
SIDE A

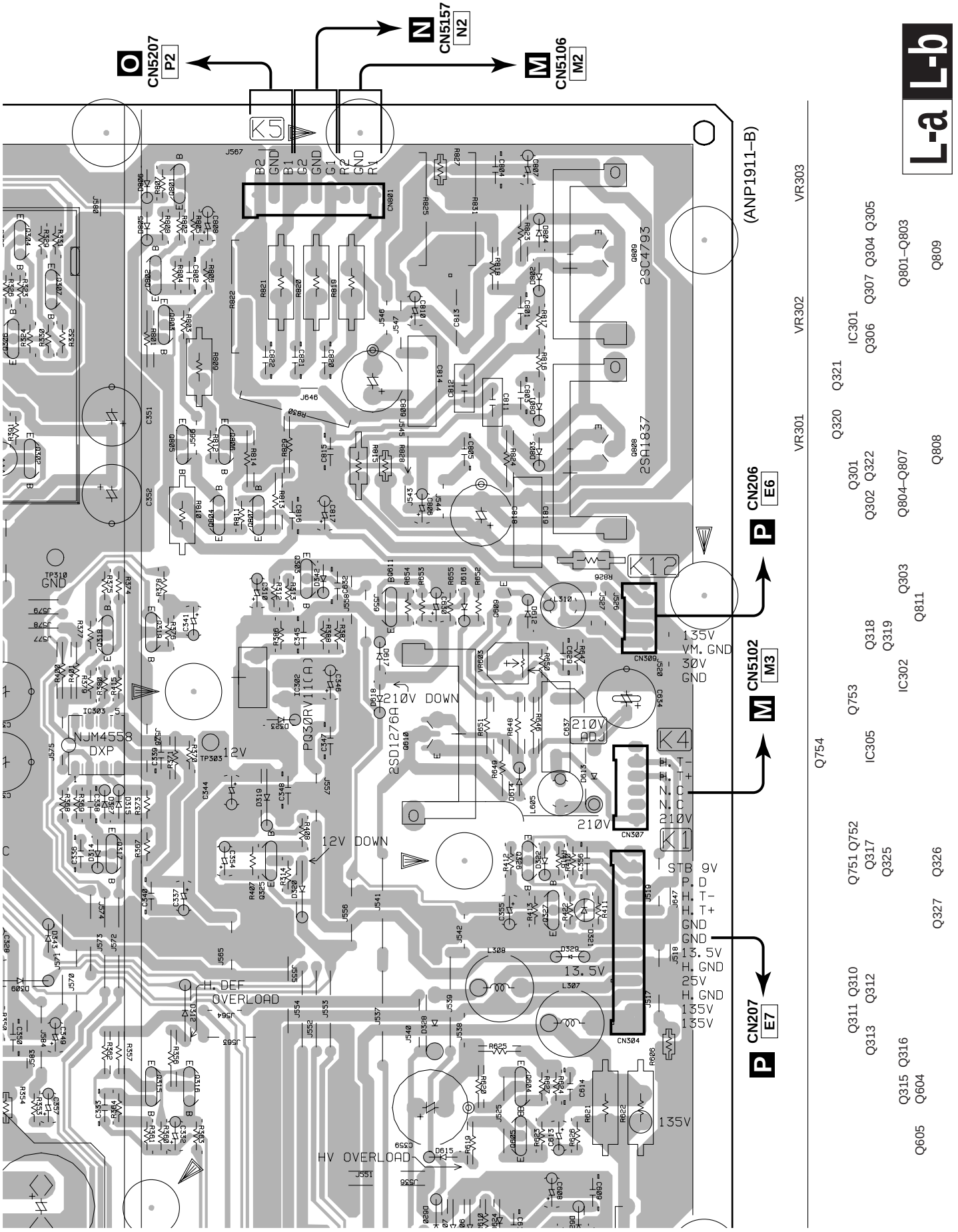

To L3 Deflection Yoke (BLUE)
To L2 Deflection Yoke (GREEN)
To L1 Deflection Yoke (RED)
To V1 FOCUS VR
I CN1652 H3
H CN2202 Y4
H CN2201 Y1
CAUTION HIGH VOLTAGE
ATK1126-A
TA8658N
NJM4558
PQ30RV11(A)
2SC4686
2SD1276A
2SA1837
2SC4793
O CN5207 P2
N CN5157 N2
M CN5106 M2
P CN207 E7
M CN5102 M3
P CN206 E6
(ANP1911–B)


VR301
VR302
VR303
Q754
Q320
Q321
Q311
Q310
Q751
Q752
Q753
Q301
IC301
Q313
Q312
Q317
IC305
Q318
Q302
Q322
Q306
Q307
Q304
Q305
Q325
Q319
Q315
Q316
IC302
Q303
Q804–Q807
Q801–Q803
Q605
Q604
Q811
Q327
Q326
Q808
Q809

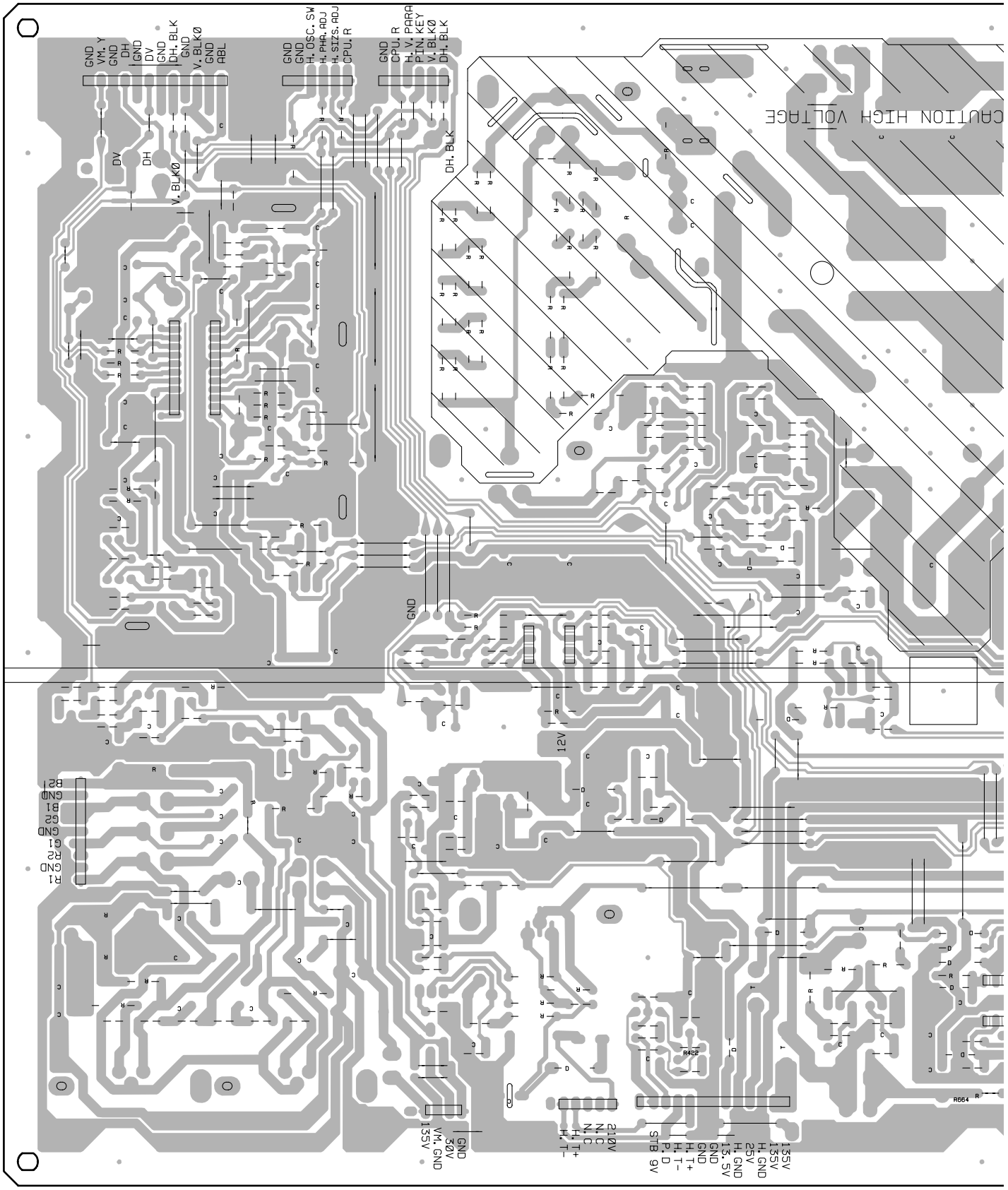

SIDE A
RED CRT J12
GREEN CRT J13
BLUE CRT J14
H. V. CR BLOCK
L-a L-b
L DEFLECTION SERVICE ASSY
ATK1126-A
ATK1127-A
J601 CRT GND
REG OUT
X-RAY PD
220V
HV. ADJ
X-RAY ADJ
HV. DETECT
H. GND
CAUTION HIGH V


HV OVERLOAD
RETURN WIRE
CPU RESET
H. DRIVE
HV ADJ
25V
135V
220V
ABL
REG OUT
H. GND
NJM4558 DXP
IC601
2SC5043
2SC1167
ATK1127-A
ATL1138-D
YG-M3
SUB SUFFIX
HIGH VOLTAGE
AWV-1711-A 1731-A
ANP1911-B
VR601 VR602
Q60
Q308
Q314
Q309
Q324
Q602
Q607 Q608
Q603
Q606
Q613
Q614
Q601
Q612

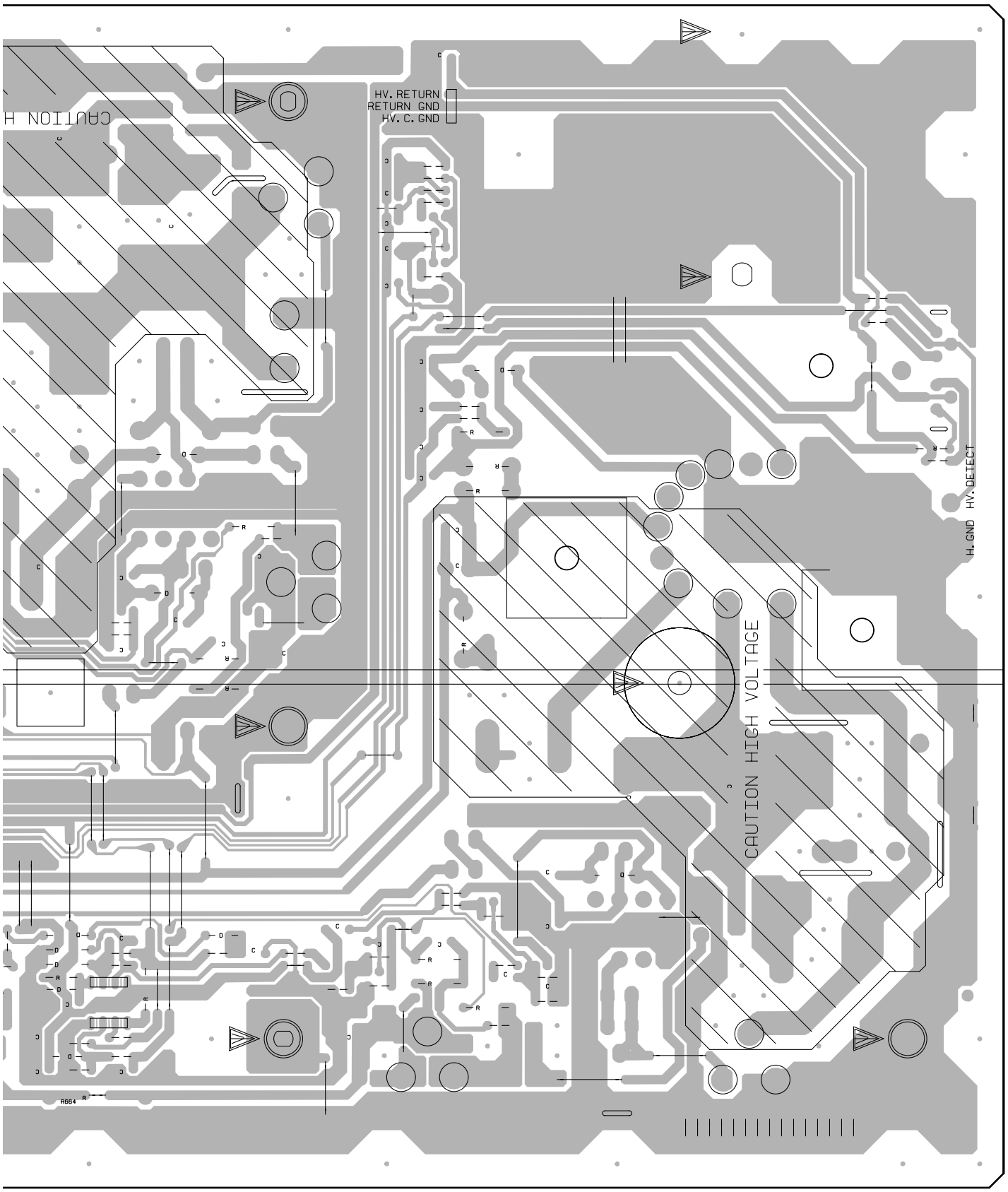

SIDE A
L-a L-b
CN2201 Y1
CN2202 Y4
CN1652 H3
To V1 FOCUS VR
To L3 Deflection Yoke (BLUE)
To L2 Deflection Yoke (GREEN)
To L1 Deflection Yoke (RED)
CAUTION HIGH VOLTAGE
V. BLK. ADJ
V. OSC. ADJ
H. OSC. ADJ
H. SIZE ADJ
CPU RESET
PIN. KEY
DH. BLK
TA8638N
2SC4686
ATK1126-A


O
CN5207
P2
N
CN5157
N2
M
CN5106
M2
(ANP1911–B)
P
CN206
E6
M
CN5102
M3
P
CN207
E7
CN309
CN307
CN304
135V
VM. GND
30V
GND
210V DOWN
210V
ADJ
12V DOWN
12V
STB 9V
P. D
H. T–
H. T+
N. C
N. C
210V
GND
GND
13. 5V
H. GND
25V
H. GND
135V
135V
H. DEF
OVERLOAD
HV OVERLOAD
13.5V
135V
2SC4793
2SA1837
2SD1276A
PQ30RV11(A)
NJM4558
DXP
VR301
VR302
VR303
IC301
IC302
IC303
IC305
Q301
Q302 Q322
Q303
Q318
Q319
Q320
Q321
Q753
Q754
Q751 Q752
Q311 Q310
Q313 Q312
Q315 Q316
Q605 Q604
Q804–Q807
Q801–Q803
Q808
Q809
Q811
Q317
Q325
Q326
Q327
L-a
L-b

L DEFLECTION SERVICE ASSY

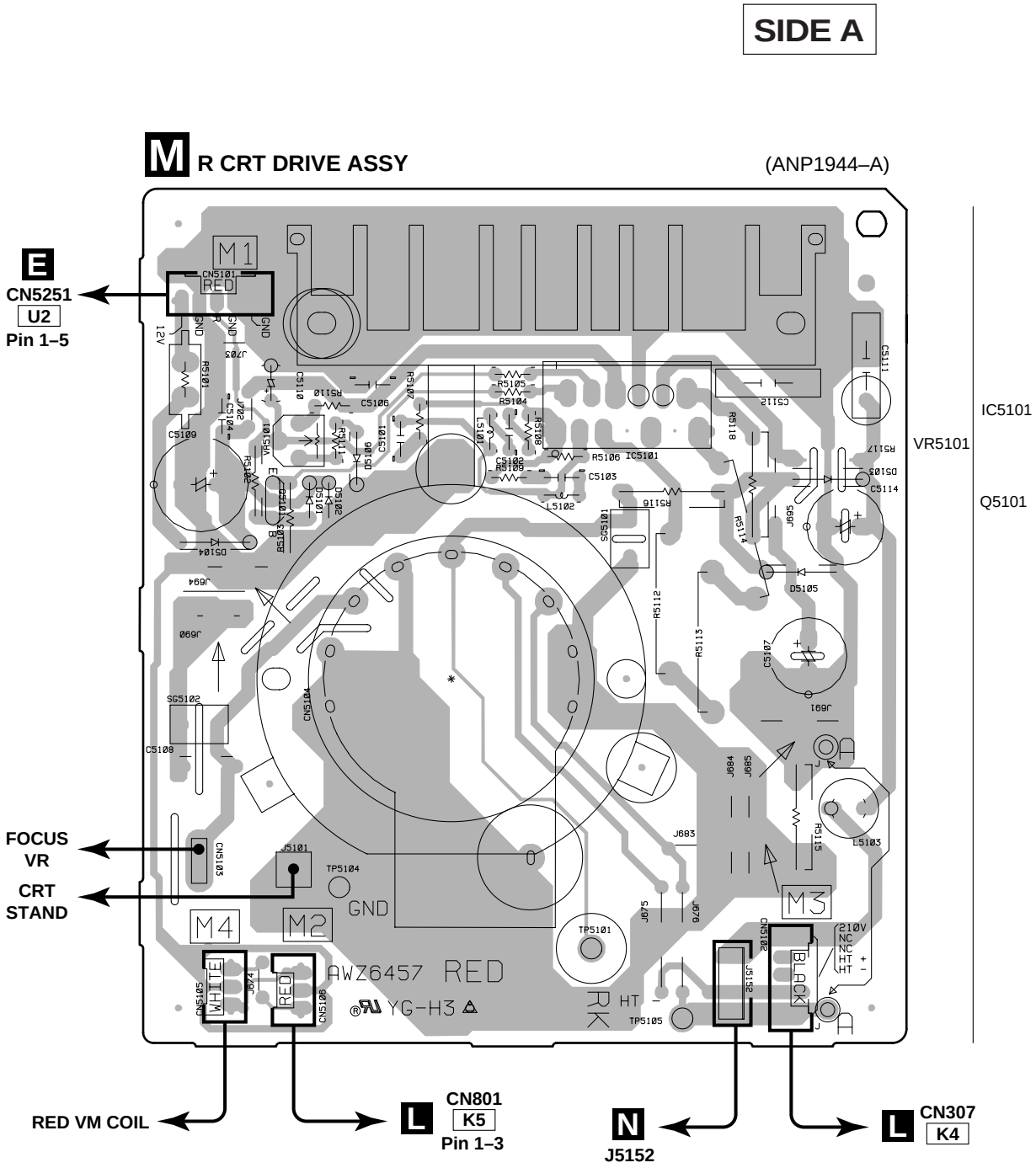


SIDE B



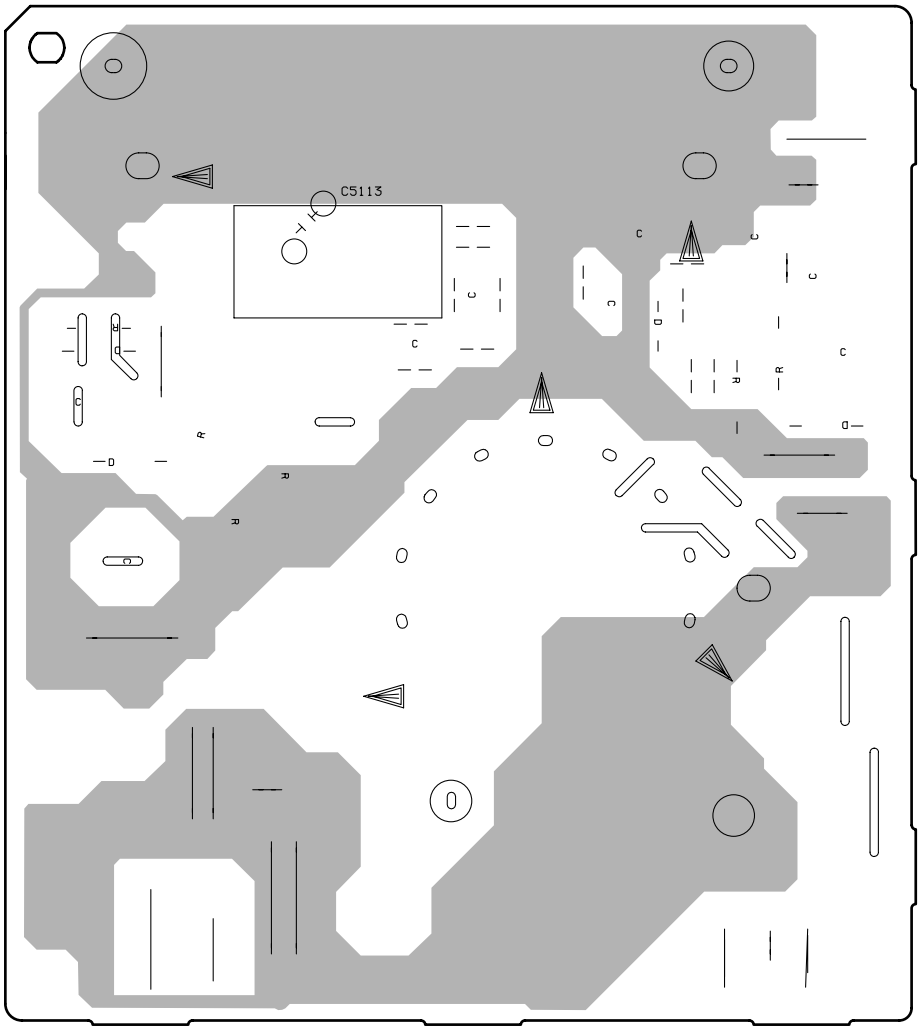
(ANP1911–B)

4.9 R CRT DRIVE ASSY



SIDE B

M R CRT DRIVE ASSY

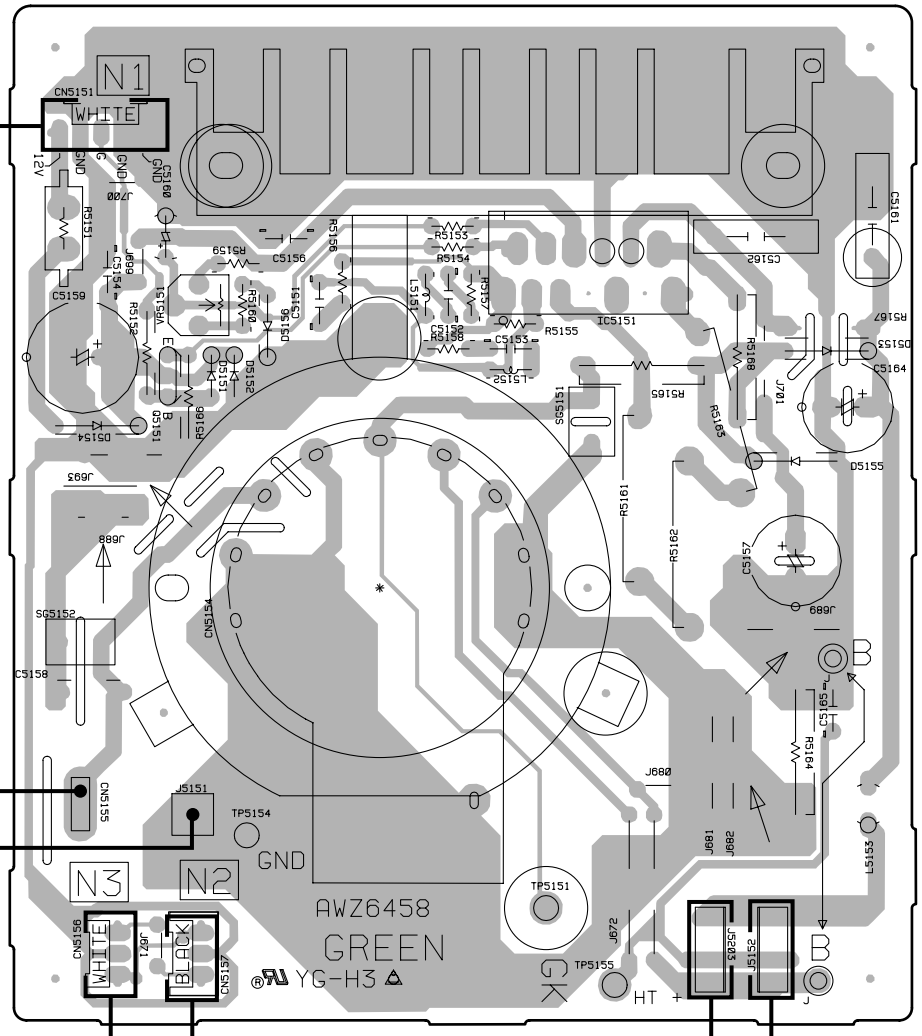


(ANP1944–A)

4.10 G CRT DRIVE ASSY

SIDE A

N G CRT DRIVE ASSY (ANP1944–A)



IC5151
VR5151
Q5151

E
CN5251
U2
Pin 6–10

FOCUS VR

CRT STAND

GREEN VM COIL

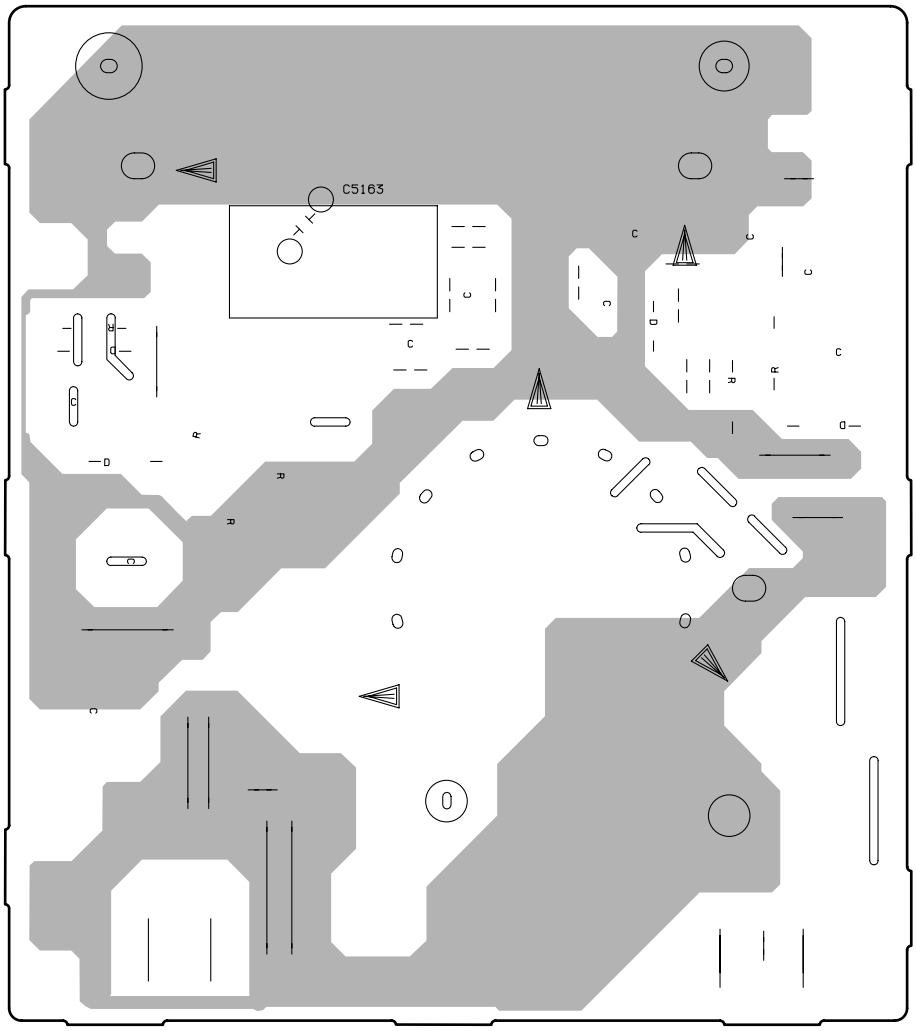
L **CN801** **K5** **Pin 4–6**

O **J5203**

M **J5152**

SIDE B

N G CRT DRIVE ASSY

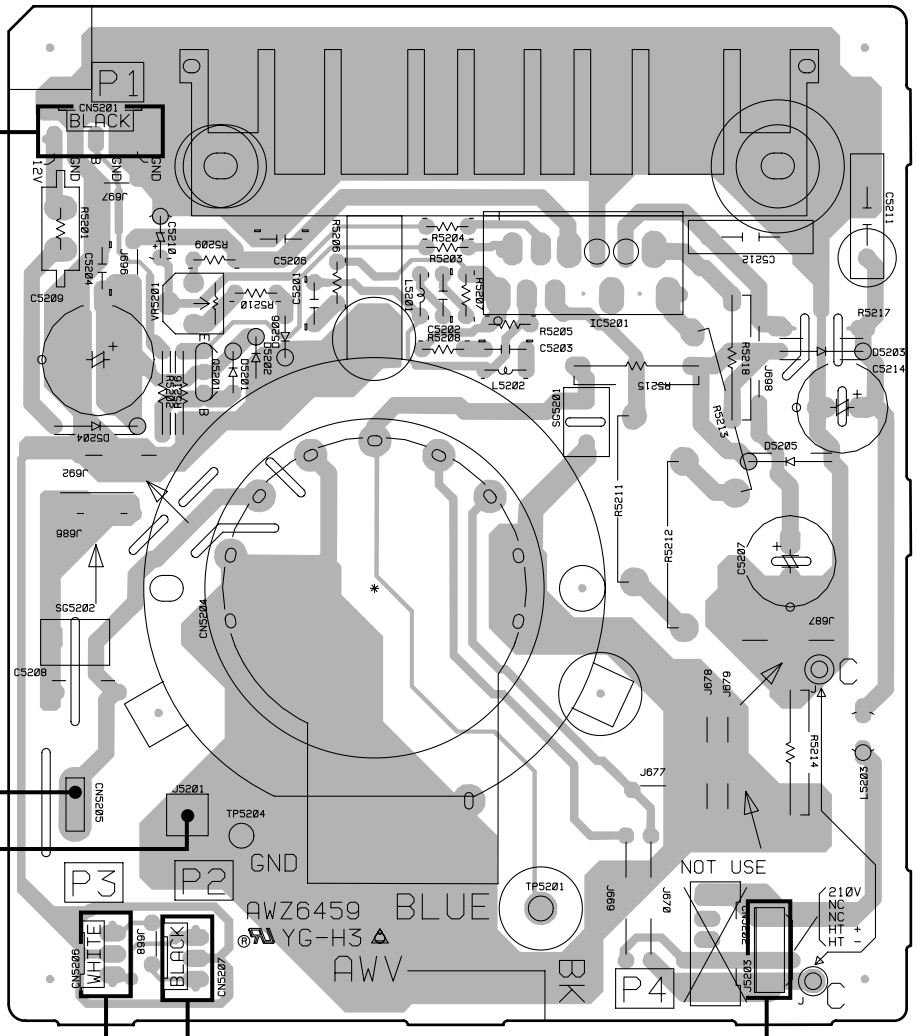


(ANP1944–A)

4.11 B CRT DRIVE ASSY

SIDE A

O B CRT DRIVE ASSY (ANP1944–A)



E CN5251 U2 Pin 11–15

FOCUS VR

CRT STAND

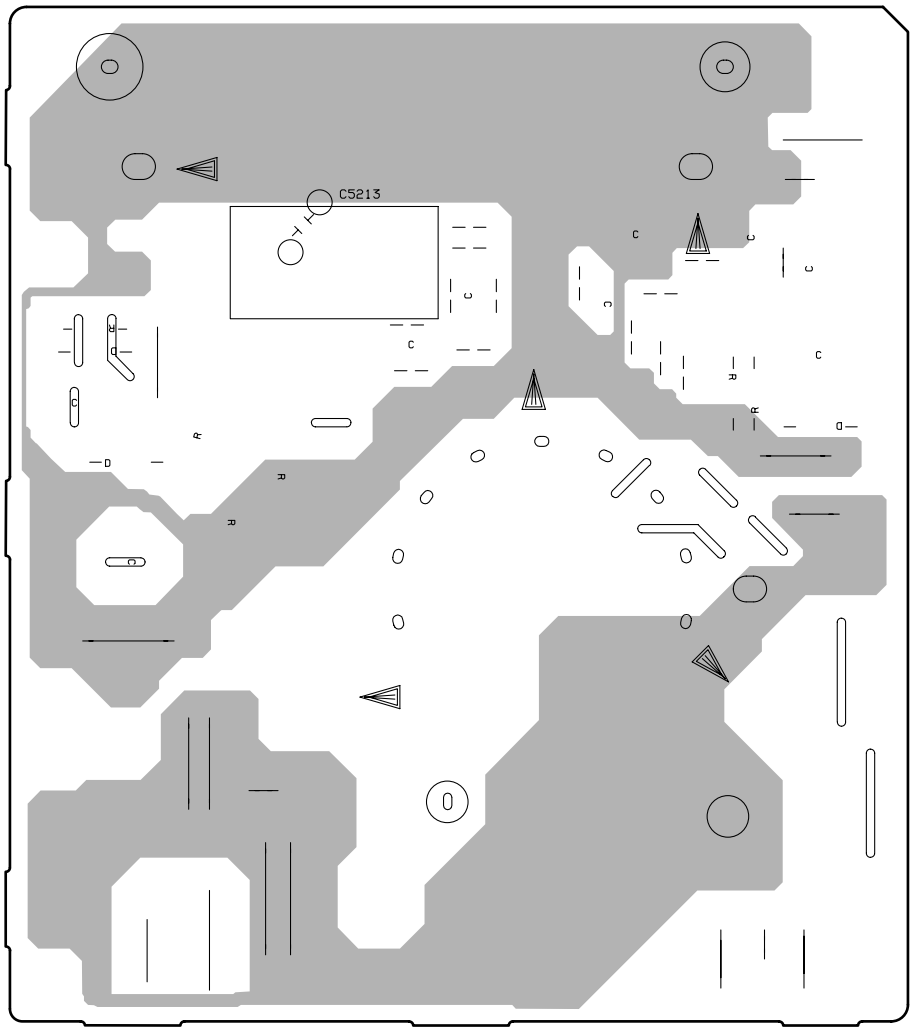
BLUE VM COIL

L CN801 K5 Pin 7–9

N J5203

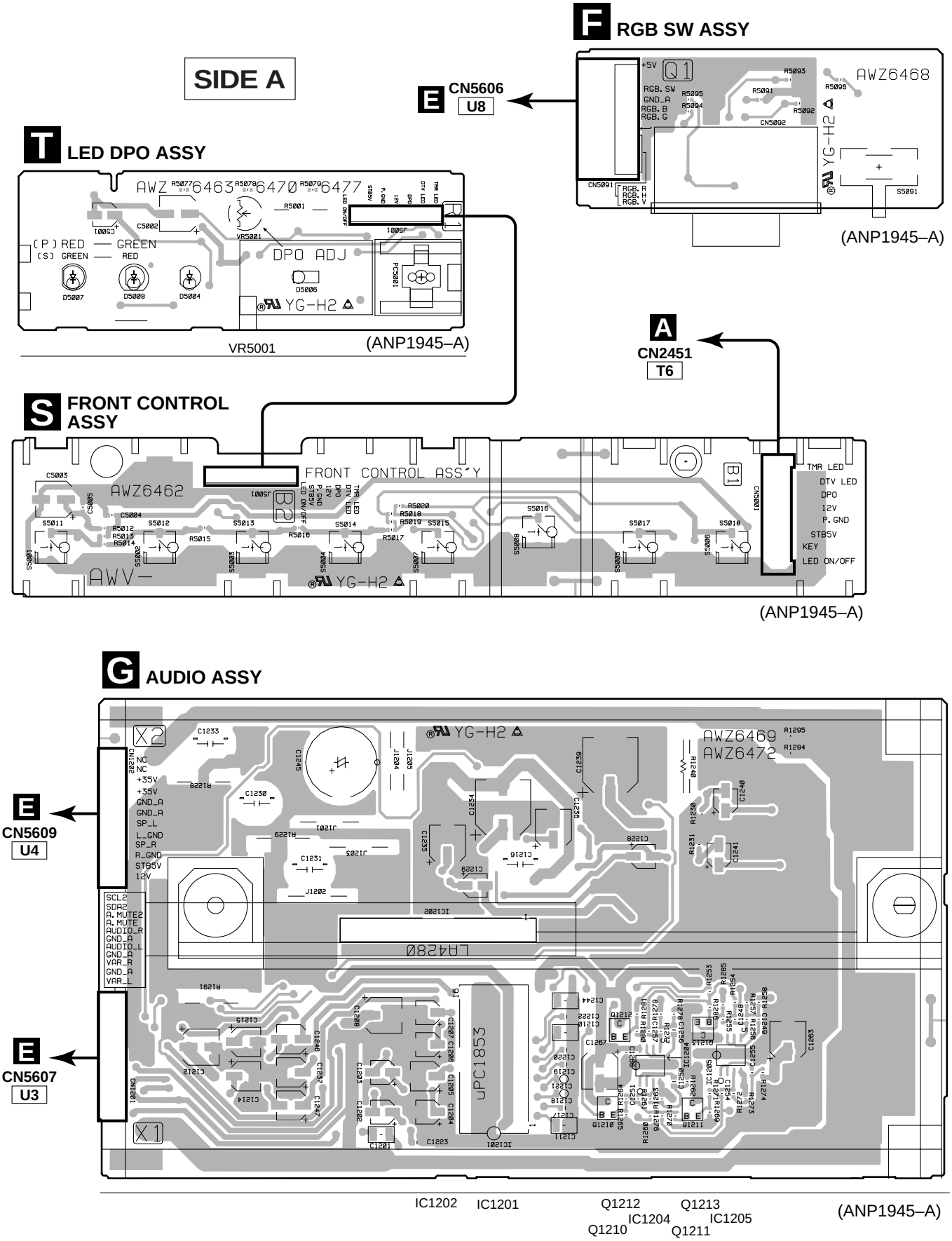
SIDE B

G CRT DRIVE ASSY



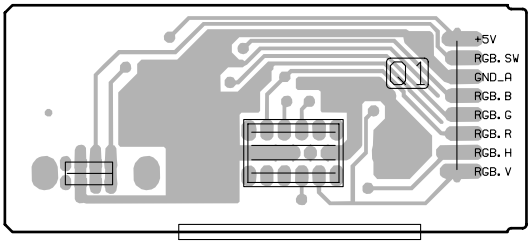
(ANP1944–A)

4.12 AUDIO ASSY, RGB SW ASSY, FRONT CONTROL ASSY and AUDIO ASSY



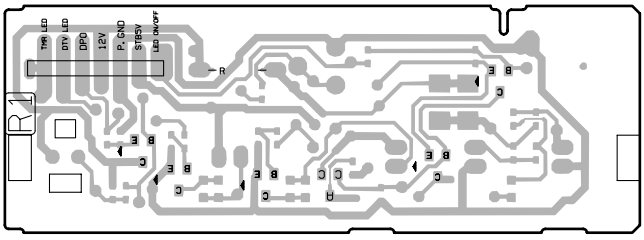
SIDE B

F RGB SW ASSY



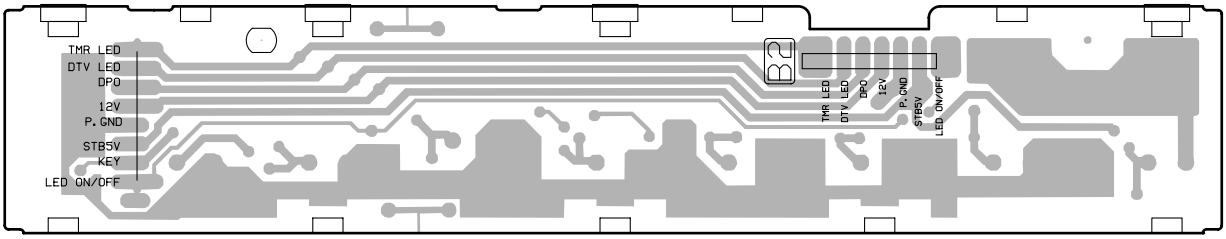
(ANP1945–A)

T LED DPO ASSY



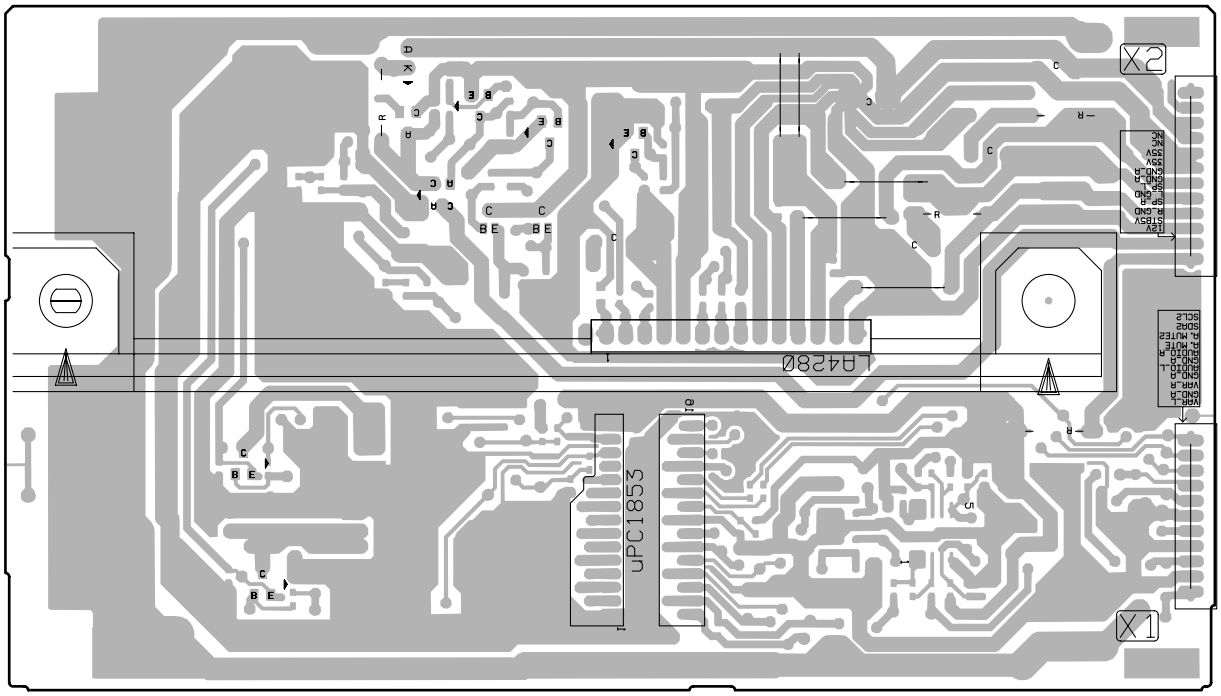
(ANP1945–A)

S FRONT CONTROL ASSY



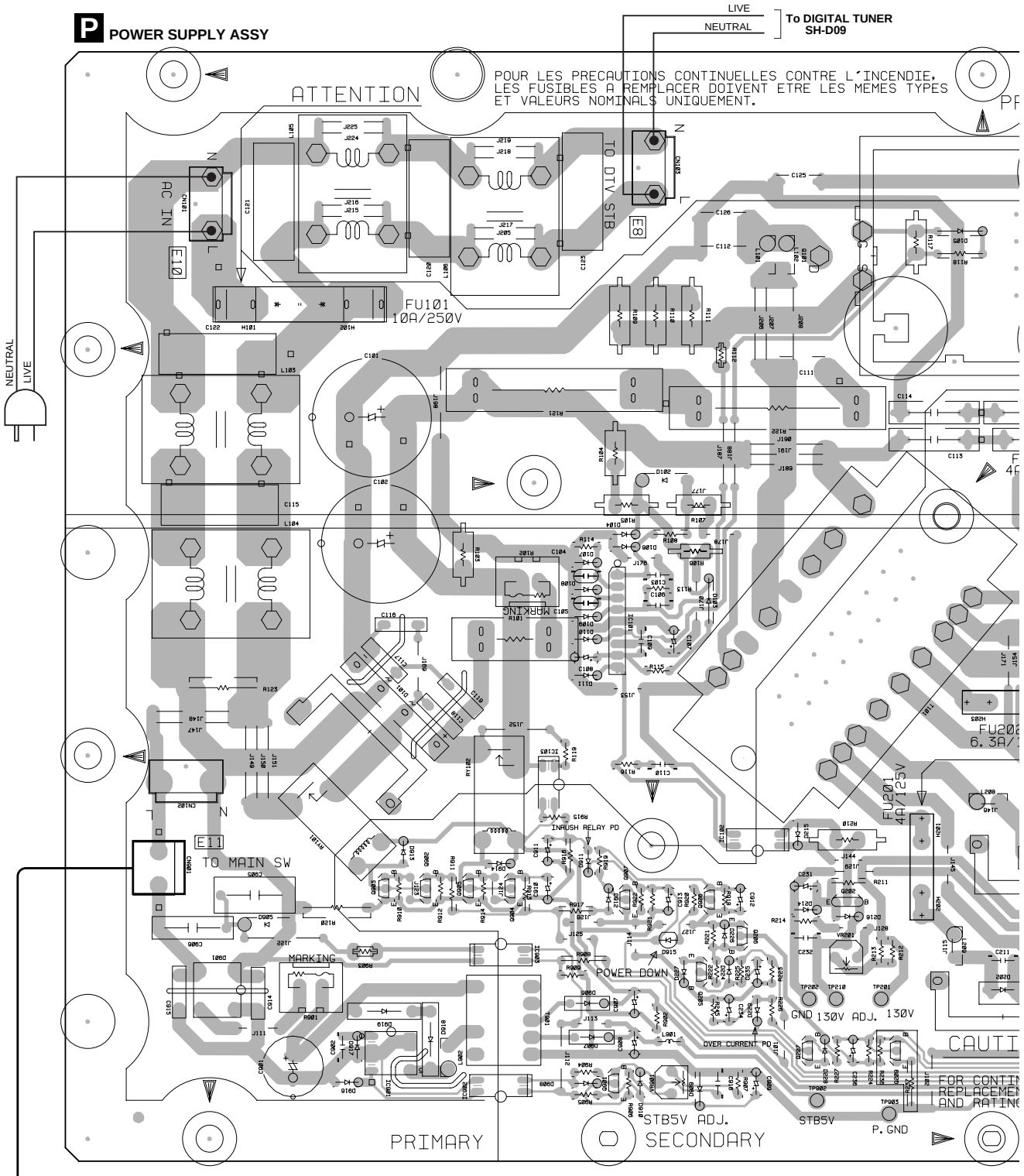
(ANP1945–A)

G AUDIO ASSY

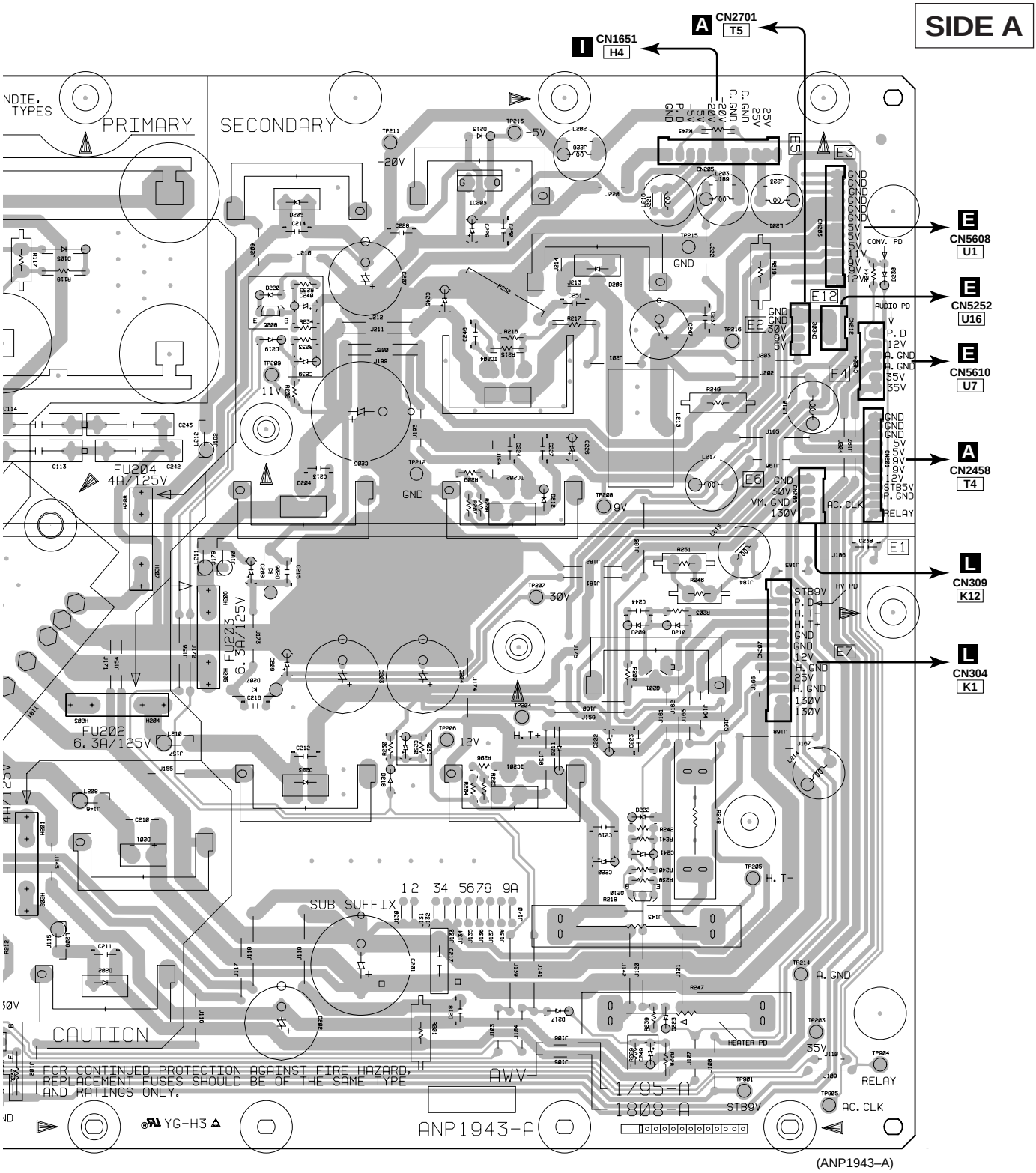


(ANP1945–A)

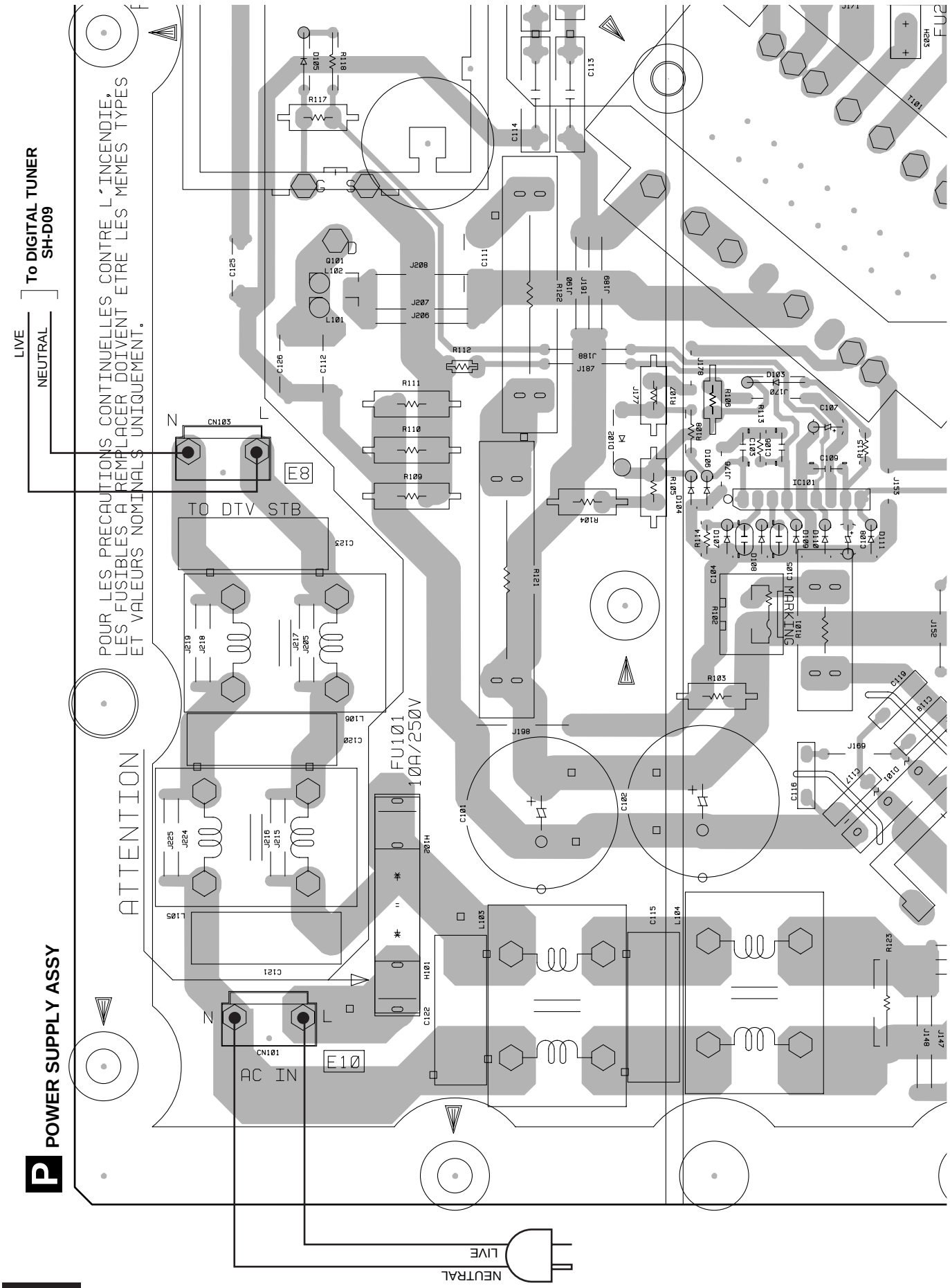
4.13 POWER SUPPLY ASSY and POWER SW ASSY

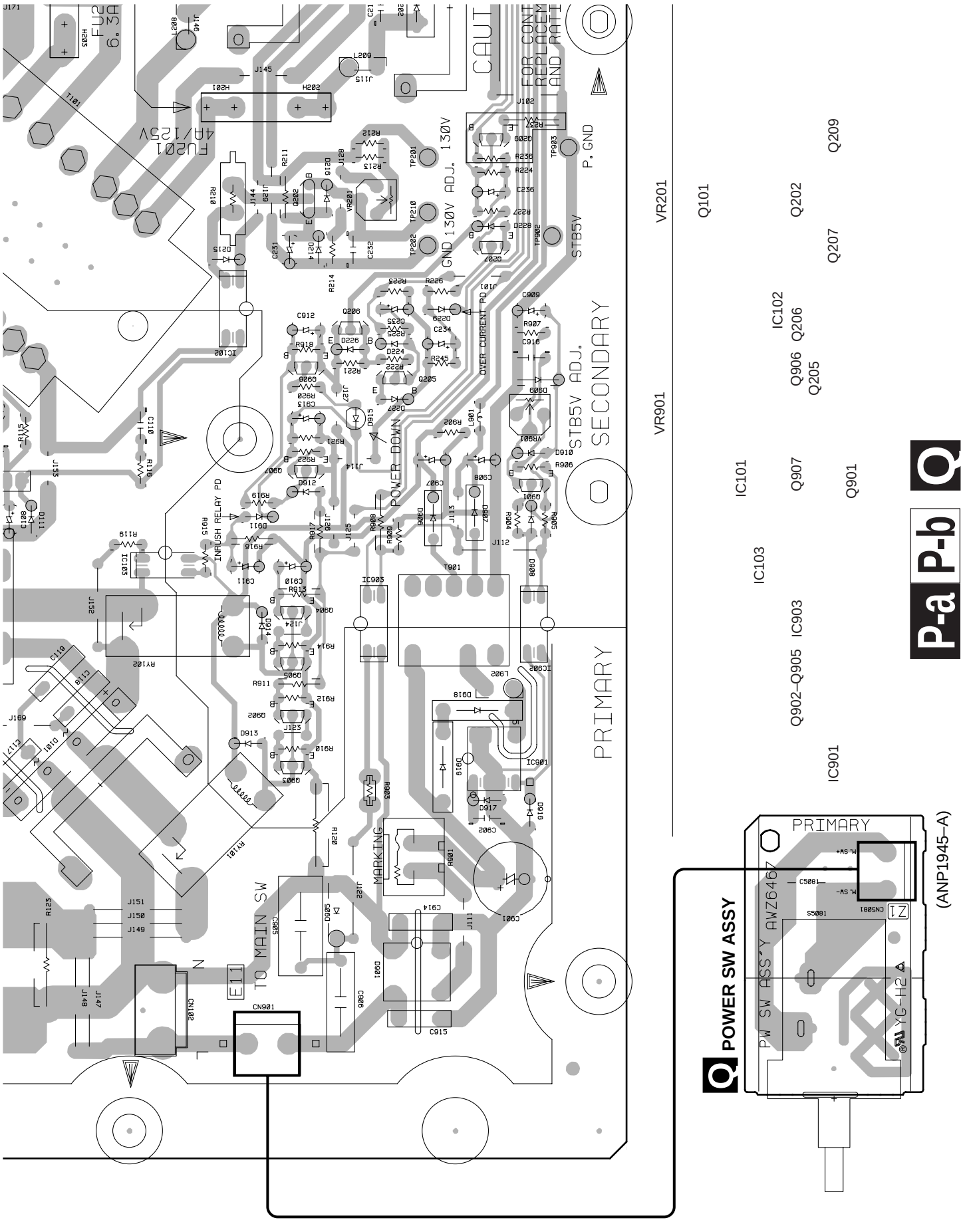


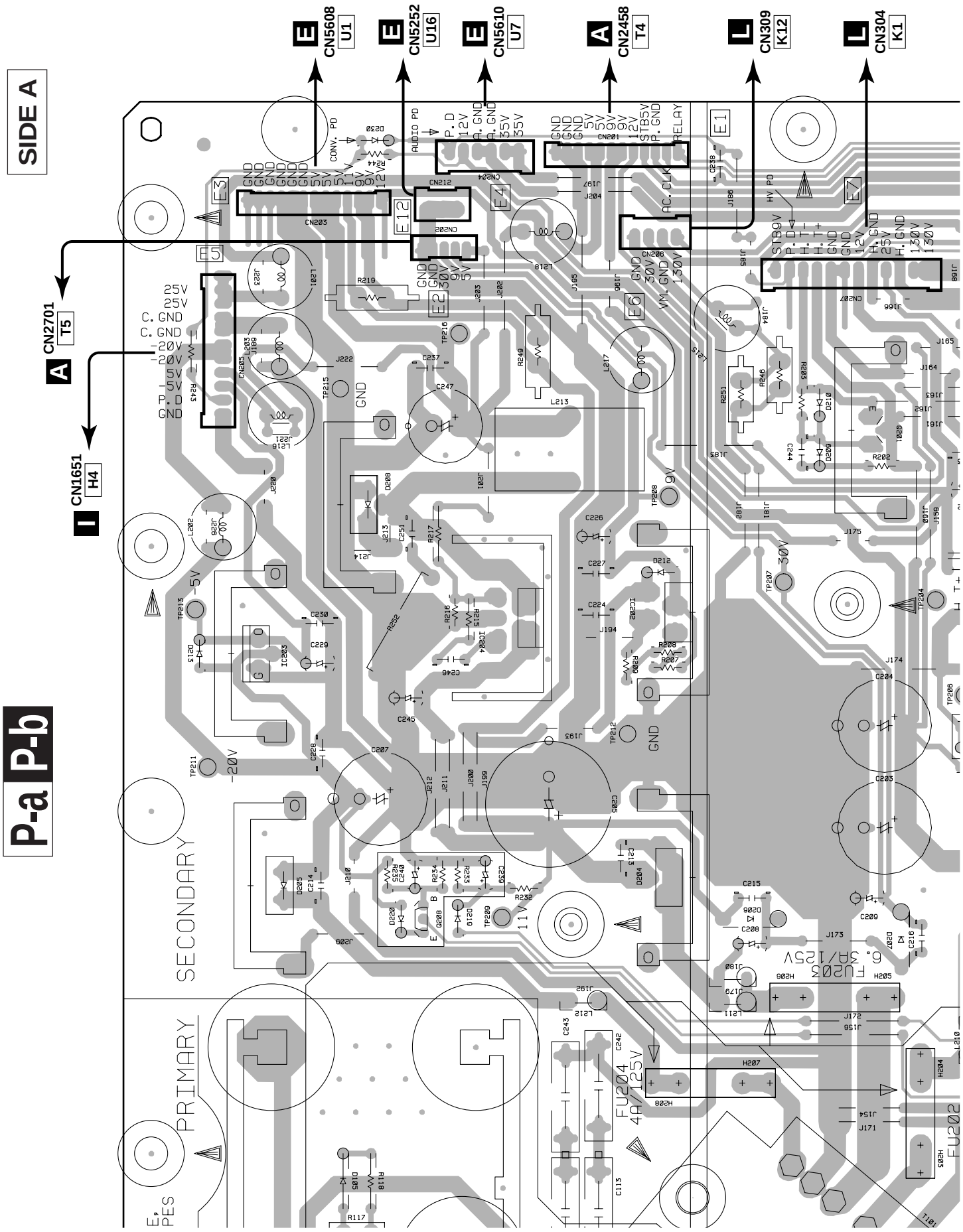
SIDE A

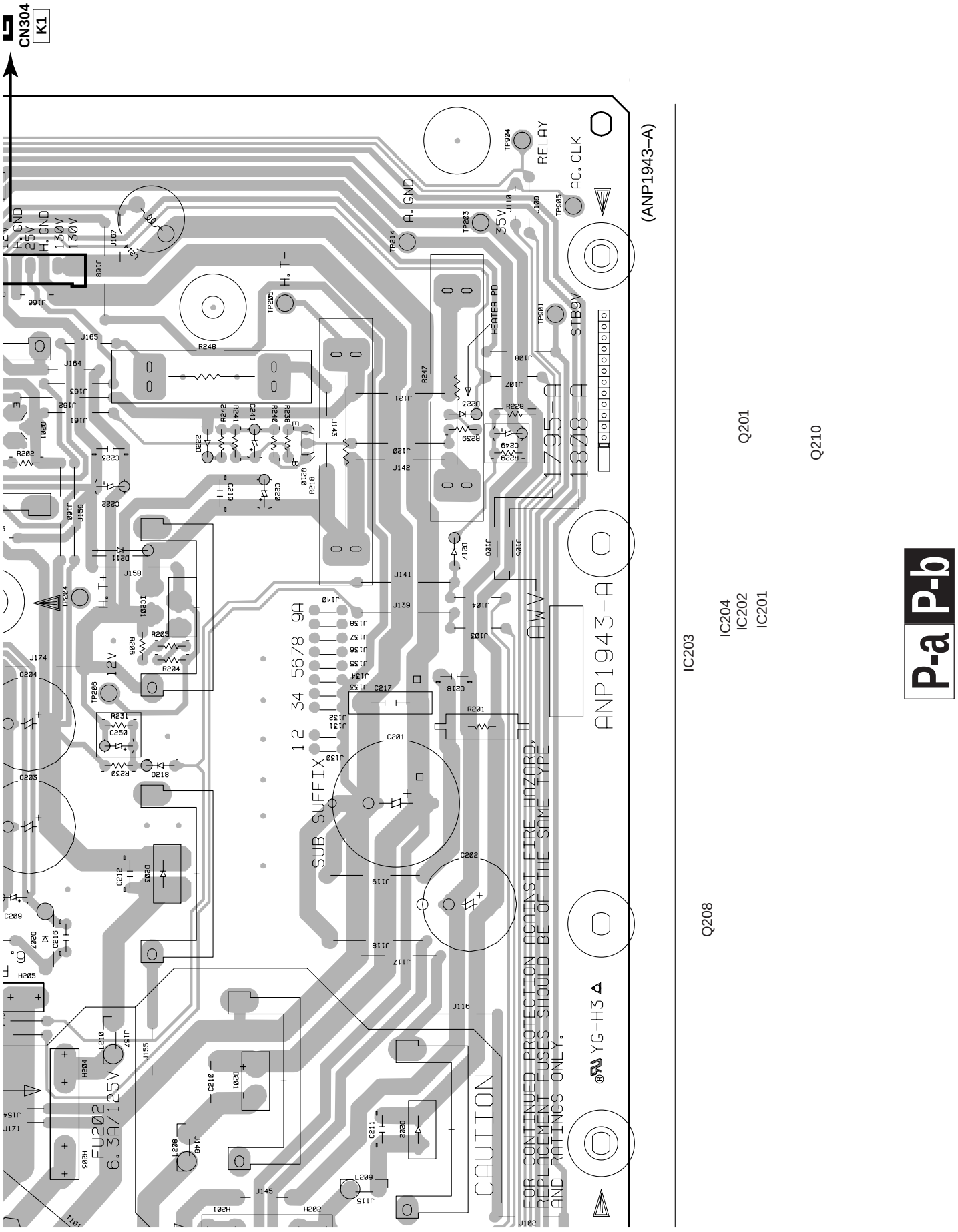


IC203
Q208
IC204
IC202
IC201
Q201
Q210

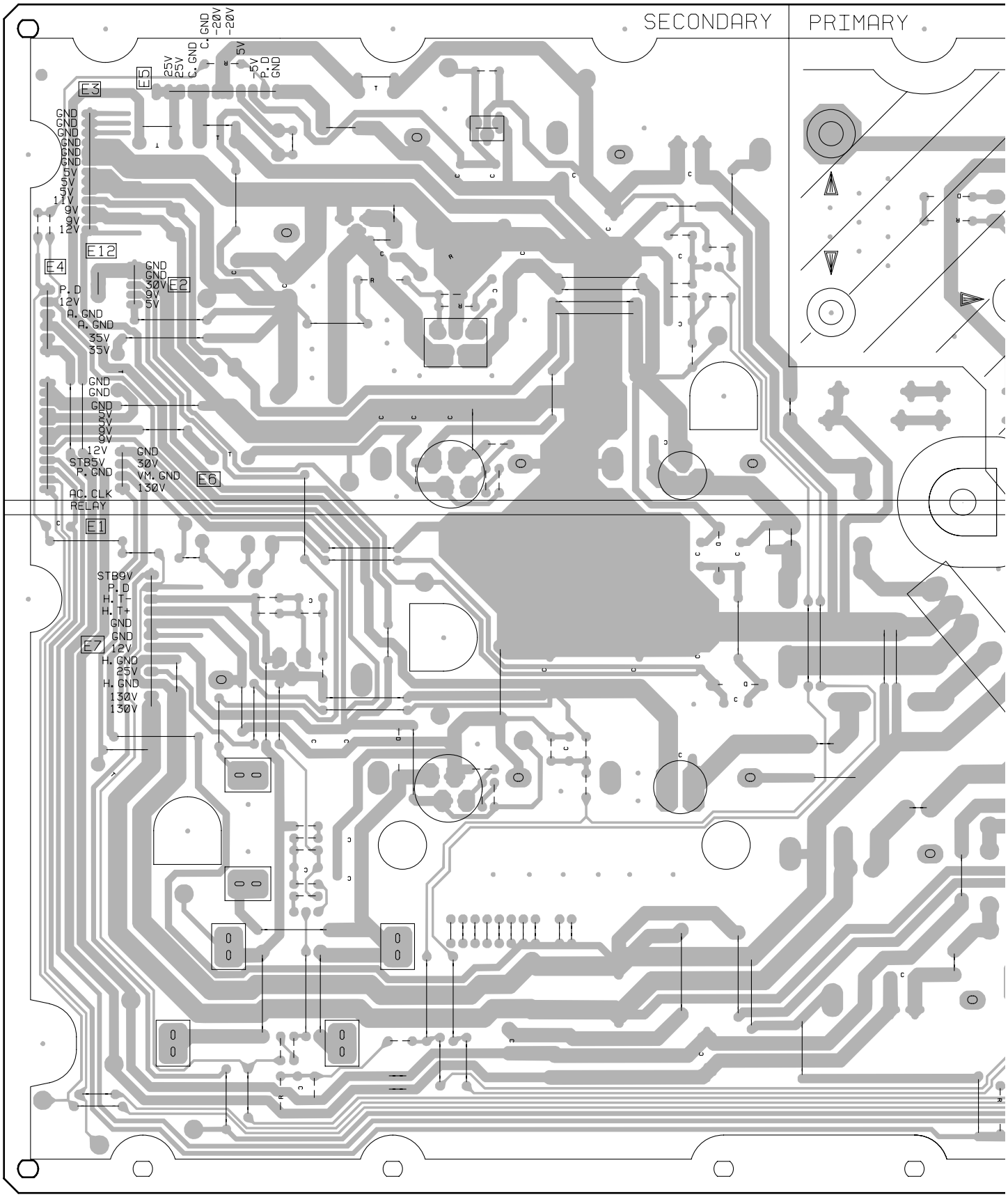

SIDE A
P-a P-b
P POWER SUPPLY ASSY
To DIGITAL TUNER SH-D09
LIVE
NEUTRAL
POUR LES PRECAUTIONS CONTINUELLES CONTRE L'INCENDIE,
LES FUSIBLES A REMPLACER DOIVENT ETRE LES MEMES TYPES
ET VALEURS NOMINALS UNIQUEMENT.
TO DTV STB
E8
CN103
AC IN
E10
CN101
ATTENTION
FU101
10A/250V
MARKING
NEUTRAL
LIVE


PRIMARY
SECONDARY
POWER DOWN
INRUSH RELAY PD
OVER CURRENT PD
STB5V ADJ.
GND 130V ADJ. 130V
STB5V
P.GND
TO MAIN SW
MARKING
CAUT
FOR CONT
REPLACEM
LAND RATI
VR201
VR901
Q101
Q202
Q209
Q207
IC102
Q206
Q906
Q205
IC101
Q907
Q901
IC103
IC903
Q902–Q905
IC901
POWER SW ASSY
PW SW ASS'Y AWZ6467
PRIMARY
(ANP1945–A)

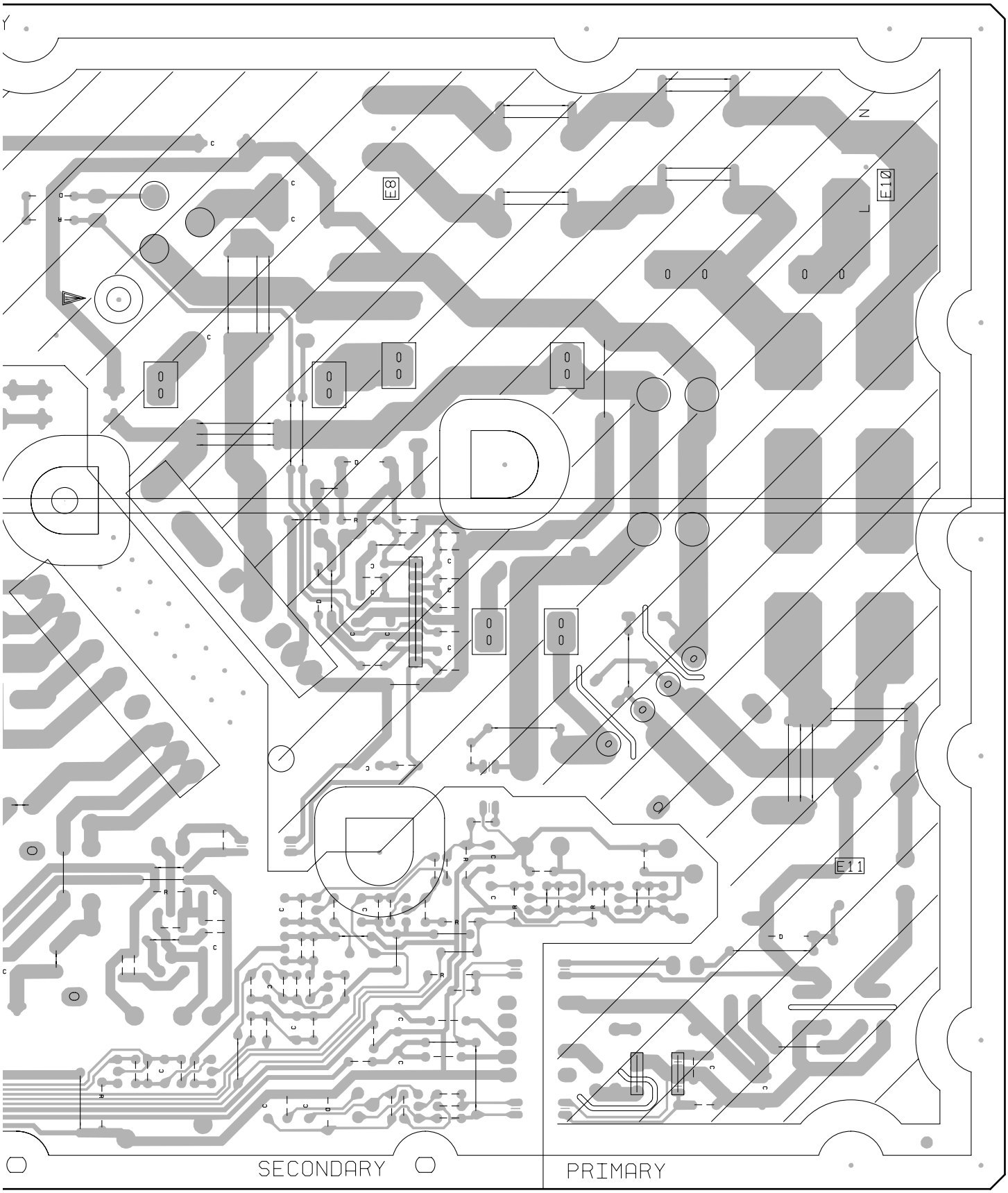

SIDE A
E CN5608 U1
E CN5252 U16
E CN5610 U7
A CN2458 T4
L CN309 K12
L CN304 K1
A CN2701 T5
I CN1651 H4
P-a P-b
SECONDARY
PRIMARY
FU204 4A/125V
FU205 3A/125V
FU202


CN304
K1
(ANP1943–A)
Q201
Q210
IC204
IC202
IC201
IC203
Q208
P-a P-b
ANP1943-A
1795-A
1808-A
SUB SUFFIX
12 34 5678 9A
CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACEMENT FUSES SHOULD BE OF THE SAME TYPE
AND RATINGS ONLY.
FU202
6.3A/125V
H.GND
25V
H.GND
130V
130V
A.GND
AC.CLK
RELAY
35V
STBBV
HEATER PD
H.T-
H.T+
12V

P POWER SUPPLY ASSY



SIDE B



(ANP1943–A)

5. PCB PARTS LIST

NOTES :
- *Parts marked by "* NSP *" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

  Ex. 1 When there are 2 effective digits (any digit apart from 0) , such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%) .

  560 Ω → 56 × 10 [1] → 561 ..... RD1/4PU 5 6 1 J

  47k Ω → 47 × 10 [3] → 473 ..... RD1/4PU 4 7 3 J

  0.5 Ω → R50 ..... RN2H R 5 0 K

  1 Ω → 1R0 ..... RS1P 1 R 0 K

  Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors) .

  5.62k Ω → 562 × 10 [1] → 5621 ..... RN1/4PC 5 6 2 1 F

- *Parts marked by ☆ are important parts which relate in X-rays radiation. If any of these parts need to be replaced, always replace with specified parts.*
- *Parts marked by × are important parts which relate in X-rays radiation. If a failure occurs in any of these parts, replace the printed circuit board ASSY where the relevant part has already been adjusted as a working component. Do not replace the actual part itself. If any part marked by × is replaced, there is danger of being exposed to X-rays.*

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.				Remarks
		PRO-610HD	PRO-510HD	SD-582HD5	SD-532HD5	
	POWER SUPPLY ASSY	AWV1795	AWV1795	AWV1808	AWV1808	
☆	DEFLECTION SERVICE ASSY	AWV1809	AWV1809	AWV1809	AWV1809	
	AMP ASSY	AWV1797	AWV1797	AWV1797	AWV1797	
	├ CONV. AMP ASSY	AWZ6456	AWZ6456	AWZ6456	AWZ6456	
	├ R CRT DRIVE ASSY	AWZ6457	AWZ6457	AWZ6457	AWZ6457	
	├ G CRT DRIVE ASSY	AWZ6458	AWZ6458	AWZ6458	AWZ6458	
	└ B CRT DRIVE ASSY	AWZ6459	AWZ6459	AWZ6459	AWZ6459	
NSP	DIGITAL CONV. ASSY	AWV1798	AWV1798	AWV1803	AWV1803	
	├ DIGITAL CONV. ASSY	AWZ6460	AWZ6460	AWZ6460	AWZ6460	
	├ CONNECTOR ASSY	AWZ6461	AWZ6461	AWZ6461	AWZ6461	
	├ FRONT CONTROL ASSY	AWZ6462	AWZ6462	AWZ6462	AWZ6462	
	├ LED DPO ASSY	AWZ6463	AWZ6463	AWZ6470	AWZ6470	
	├ BNC ASSY	AWZ6464	AWZ6464	Not used	Not used	
	├ SR ASSY	AWZ6465	AWZ6465	AWZ6465	AWZ6465	
	├ FRONT INPUT ASSY	AWZ6466	AWZ6466	AWZ6471	AWZ6471	
	├ POWER SW ASSY	AWZ6467	AWZ6467	AWZ6467	AWZ6467	
	├ RGB SW ASSY	AWZ6468	AWZ6468	AWZ6468	AWZ6468	
	└ AUDIO ASSY	AWZ6472	AWZ6472	AWZ6469	AWZ6469	
	VIDEO ASSY	AWV1799	AWV1799	AWV1804	AWV1804	
	SIGNAL ASSY	AWV1800	AWV1800	AWV1805	AWV1805	
	├ RF SWITCH	AXF1088	AXF1088	AXF1088	AXF1088	
	└ TV FRONT END SYSTEM UNIT	AXF1084	AXF1084	AXF1084	AXF1084	
	SUB VIDEO SERVICE ASSY	AWV1819	AWV1819	Not used	Not used	
	SUB VIDEO ASSY	Not used	Not used	AWV1806	AWV1806	
	AV I/O ASSY	AWV1802	AWV1802	AWV1807	AWV1807	

■ CONTRAST OF PCB ASSEMBLIES

P POWER SUPPLY ASSY

AWV1795 and AWV1808 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWV1795	AWV1808	
	L105, L106	ATF1183	Not used	
	C120	ACE1125	Not used	
	CN103	AKM1156	Not used	

T LED DPO ASSY

AWZ6463 and AWZ6470 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWZ6463	AWZ6470	
	D5006	NSPWF50S-8038	Not used	
	Q5004	2SC2712	Not used	
	R5064, R5065	RS1/16S223J	Not used	
	R5066	RS1/10S151J	Not used	
	R5077	RS1/16S0R0J	Not used	
	R5078	Not used	RS1/16S0R0J	

R FRONT INPUT ASSY

AWZ6466 and AWZ6471 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWZ6466	AWZ6471	
	R5082	RS1/16S0R0J	Not used	
	R5083	Not used	RS1/16S0R0J	
	CN5042 Pin Jack (3P)	AKB1261	AKB1284	

A SIGNAL ASSY

AWV1800 and AWV1805 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWV1800	AWV1805	
	A 3/9			
	R2520	Not used	RS1/16S473J	
	R2521, R2638	RS1/16S473J	Not used	
	R2586–R2588, R2595, R2596, R2688	RS1/16S0R0J	Not used	
	R2689	Not used	RS1/16S0R0J	
	CN2452	KM250MA7L	Not used	

E VIDEO ASSY

AWV1799 and AWV1804 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWV1799	AWV1804	
	E 2/2 R5268	RD1/4PU133J	RD1/4PU123J	

G AUDIO ASSY

AWZ6472 and AWZ6469 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWZ6472	AWZ6469	
	IC1203	NJM4558MD	Not used	
	C1212	CEV470M16	Not used	
	C1213	CKSRYF103Z50	Not used	
	C1214, C1215, C1237, C1246, C1247	CEV220M16	Not used	
	C1249, C1255	CKSRYB682K50	CKSRYB562K50	
	R1208, R1209	RS1/16S101J	Not used	
	R1210, R1250	RS1/16S333J	Not used	
	R1211, R1214	RS1/16S222J	Not used	
	R1212, R1248	RS1/16S823J	Not used	
	R1213, R1215	RS1/16S623J	Not used	
	R1255, R1271	RS1/16S183J	RS1/16S223J	
	R1259	RS1/16S821J	Not used	
	R1264, R1280	RS1/16S103J	RS1/16S123J	
	R1294	RS1/16S0R0J	Not used	
	R1295	Not used	RS1/16S0R0J	

■ PCB PARTS LIST

Mark	No.	Description	Part No.

■ For SD-582HD5 and SD-532HD5

H SUB VIDEO ASSY (AWV1806)

SEMICONDUCTORS

	IC3001	AN5344FBP
	IC4301	AN5395FBP
	IC3402	CD74HCT4046AM
	IC4304	CXA1315M
	IC4802	HG62G010R29FB
	IC3407	M51952BML
	IC4052	M52036SP
	IC3404	MC14011BF
	IC3003	NJM319M
	IC2204	PD0264AM
	IC2201	PD5563
	IC2203	PST9146N
	IC3405, IC3406	SAA4955TJ
	IC3403	SAA4977H
	IC3401	SAA4990H
	IC3409	TA78M05F
	IC4806	TA8667F
	IC2205	TC74HC157AF
	IC4803	TC74HC4040AF
	IC4051	TC74HC4053AF
	IC4053, IC4055	TC74HC4066AF
	IC3414, IC4054, IC4056	TC74HC4538AF
	IC4804	TC74HCT74AF
	IC3408	TC7SET04FU
	IC3002	TK15420M
	IC3412, IC3413	UPC29L33T
	IC3410	UPC78L05T
	Q3401	2SA1037K
	Q2202, Q2204, Q2205, Q2207, Q2208	2SA1162
	Q3002, Q3003, Q3016, Q3018, Q3204	2SA1162

Mark	No.	Description	Part No.
	Q4057, Q4058, Q4062–Q4064		2SA1162
	Q4071, Q4072, Q4078, Q4081, Q4087		2SA1162
	Q4089–Q4091, Q4096, Q4301, Q4302		2SA1162
	Q4306, Q4307, Q4319, Q4328, Q4330		2SA1162
	Q2201, Q2203, Q2206, Q2209, Q2210		2SC2712
	Q3001, Q3008–Q3013, Q3015, Q3017		2SC2712
	Q3201, Q3206, Q3210, Q3211		2SC2712
	Q3215–Q3227, Q3402, Q3403		2SC2712
	Q4051–Q4056, Q4059–Q4061		2SC2712
	Q4065–Q4070, Q4075–Q4077		2SC2712
	Q4079, Q4080, Q4083–Q4086, Q4088		2SC2712
	Q4092–Q4095, Q4097, Q4098, Q4102		2SC2712
	Q4303–Q4305, Q4308–Q4311		2SC2712
	Q4321–Q4323, Q4325–Q4327		2SC2712
	Q4331, Q4332, Q4807–Q4817		2SC2712
	Q4082		2SK209
	D3001		1SS184
	D2203, D2206, D2207, D2210–D2212		1SS226
	D2215–D2234, D4056, D4057		1SS226
	D4059, D4060		1SS226
	D3402–D3411, D4052–D4054, D4058		1SS352
	D4802–D4805		1SS352
	D3401		1SV232
	D2204, D2205		RD6.8MB

COILS AND FILTERS

L2203, L4802		ATC1037
F2201, F3201, F3202, F3402, F3403		ATF1189
F4302, F4801–F4804		ATF1189
F3404		ATG1061
DL3001		ATN1040
DL4303		ATN1055
L4310, L4312, L4313		LCTA1R5J3225
L3201, L3207, L3209		LCTA4R7J3225
L2201, L3001, L4302, L4311		LCTA5R6J3225
L4301		LCTA820J3225
L3206		LCTAR56J3225
L3402–L3425		QTL1013

CAPACITORS

C3019, C3220		CCSQCH100D50
C3403, C3404, C4082, C4365–C4367		CCSQCH101J50
C2211, C3401		CCSQCH120J50
C2207, C2208		CCSQCH150J50
C3407, C3410, C3468, C3469		CCSQCH151J50
C4376		CCSQCH180J50
C2205, C2241, C4823, C4828		CCSQCH221J50
C4369		CCSQCH270J50
C3257		CCSQCH330J50
C3402		CCSQCH331J50
C2210, C3202, C3203, C3228, C3229		CCSQCH390J50
C3233, C3234		CCSQCH390J50
C4310		CCSQCH470J50
C3201, C3227, C3232		CCSQCH4R0C50
C4302, C4347		CCSQCH560J50
C2206, C3408, C4062, C4064		CCSQCH561J50
C3409		CCSQCH680J50
C3026, C3031, C4067, C4101, C4315		CEV100M16
C3435, C4348–C4350		CEV101M16
C2222, C2226, C2237, C2239, C3020		CEV101M6R3
C3030, C4804, C4817		CEV101M6R3
C2234, C3014, C4099, C4377		CEV1R0M50
C3221, C3231, C3237–C3239		CEV220M16
C4052, C4053		CEV220M16
C3009, C3017		CEV2R2M50
C3005, C3006, C3023, C3028		CEV470M10
C3255, C3256, C4051, C4054		CEV470M10
C4056, C4057, C4059, C4068, C4078		CEV470M10
C4080, C4345		CEV470M10
C4065, C4092, C4093, C4802, C4832		CEV470M16
C3204, C3207, C3414, C3416, C3418		CEV470M6R3
C3420, C3422, C3424, C3429, C3433		CEV470M6R3
C3458, C3461, C3463, C3464, C4075		CEV470M6R3
C4089		CEV470M6R3
C3406, C4081, C4094–C4097		CEV4R7M35
C3024		CEVNP2R2M35
C3007, C3008		CEVNPR33M50
C4063		CEVR10M50
C3001, C3002		CEVR33M50
C2238, C3015		CEVR47M50
C3012, C4303, C4311, C4319, C4359		CFHSQ103J16
C4104		CFHSQ331J50
C4103		CFHSQ332J16
C4087, C4102		CFHSQ821J50
C3471, C3472, C4055, C4355–C4358		CKSQYB224K16
C4829		CKSQYB224K16
C4060, C4086		CKSQYB472K50
C4098		CKSQYB561K50
C4830		CKSQYB822K50
C4084		CKSQYF104Z50
C3010, C3011, C4831, C4835		CKSQYF105Z16
C2224, C2228, C3022, C4323, C4324		CKSRYB102K50
C4822		CKSRYB102K50
C2223, C3013, C3016, C3438		CKSRYF103Z50
C4304–C4309, C4312, C4314, C4316		CKSRYF103Z50
C4320, C4322, C4343, C4370, C4827		CKSRYF103Z50
C2209, C2220, C2221, C2225, C2227		CKSRYF104Z16
C2236, C3003, C3004, C3018, C3025		CKSRYF104Z16
C3027, C3029, C3208, C3209		CKSRYF104Z16
C3242–C3247, C3405, C3411–C3413		CKSRYF104Z16
C3415, C3417, C3419, C3421, C3423		CKSRYF104Z16
C3425–C3428, C3430–C3432, C3434		CKSRYF104Z16
C3436, C3437, C3439–C3457, C3460		CKSRYF104Z16
C3462, C3465, C3466, C3473, C4058		CKSRYF104Z16
C4061, C4066, C4069, C4074, C4077		CKSRYF104Z16
C4079, C4083, C4088, C4091, C4317		CKSRYF104Z16
C4321, C4340, C4344, C4346, C4801		CKSRYF104Z16
C4803, C4810, C4816, C4818, C4819		CKSRYF104Z16
C4821, C4833, C4834, C4836, C4837		CKSRYF104Z16

RESISTORS

R2269, R2275		DCN1092
R4193		RS1/16S1001F
R4219		RS1/16S2001F
R4871		RS1/16S3302F
R4175, R4870		RS1/16S6802F

Mark	No.	Description	Part No.
	R3430		RS2LMF8R2J
	R3433		RS3LMF120J
	VR3003 (1 kΩ)		ACP1089
	VR4052 (2.2 kΩ)		ACP1090
	VR3004 (4.7 kΩ)		ACP1091
	Other Resistors		RS1/16S □□□J

OTHERS

	CN3002	PLUG 50–P	AKM1126
	CN3001	PLUG 44–P	AKM1155
	K3001–K3003, K3204–K3209		AKX9002
	K3401–K3415, K4301–K4304		AKX9002
	X2202	CERAMIC RESONATOR	ASS1015
	CN2202	PLUG 6–P	KM250MA6L

B AV I/O ASSY (AWV1807)

SEMICONDUCTORS

	IC6001	CXA2069Q
	Q6012, Q6022, Q6024, Q6025, Q6034	2SA1162
	Q6036–Q6038, Q6201, Q6216–Q6218	2SA1162
	Q6001, Q6002, Q6005–Q6007	2SC2712
	Q6010, Q6011, Q6021, Q6023	2SC2712
	Q6027–Q6033, Q6035, Q6039–Q6048	2SC2712
	Q6202–Q6204	2SC2712
	D6040	1SS184
	D6001–D6022, D6024, D6028, D6029	1SS226
	D6032, D6034, D6036, D6209, D6210	1SS226
	D6023, D6030, D6031, D6037–D6039	1SS352
	D6201–D6203, D6213	1SS352
	D6204	RD6.8MB
	D6214	UDZS6.2B

CAPACITORS

	C6006, C6049, C6052, C6068, C6081	CEV100M16
	C6086	CEV100M16
	C6047	CEV101M6R3
	C6074	CEV102M6R3
	C6013, C6014, C6026, C6027	CEV1R0M50
	C6031, C6032, C6036, C6037	CEV1R0M50
	C6041–C6043, C6065, C6066, C6078	CEV1R0M50
	C6015–C6017, C6024, C6028, C6029	CEV220M16
	C6033, C6034, C6051, C6064, C6070	CEV220M16
	C6083, C6088	CEV220M16
	C6001, C6004, C6018, C6020	CEV470M16
	C6059, C6060, C6085, C6214, C6216	CEV470M16
	C6204	CEV470M6R3
	C6007, C6050, C6053, C6069, C6082	CEV4R7M35
	C6087	CEV4R7M35
	C6067, C6077	CEVR47M50
	C6002, C6003, C6011, C6012	CKSQYF105Z16
	C6202	CKSQYF472Z50
	C6075, C6076	CKSRYB332K50
	C6005, C6008, C6021–C6023	CKSRYF103Z50
	C6038–C6040, C6048, C6054–C6058	CKSRYF103Z50
	C6063, C6071, C6084, C6089, C6201	CKSRYF103Z50
	C6203, C6215	CKSRYF103Z50
	C6019, C6025, C6030, C6035	CKSRYF104Z16

Mark	No.	Description	Part No.

RESISTORS

	R6183	RD1/2LMF1R0J
	R6182	RD1/4LMF3R9J
	R6279–R6281, R6297	RS1/16S0R0J
	R6106, R6123, R6126, R6136, R6144	RS1/16S101J
	R6147, R6207, R6213, R6269	RS1/16S101J
	R6271–R6273	RS1/16S101J
	R6040, R6118, R6130, R6143, R6154	RS1/16S102J
	R6163, R6174, R6201, R6205, R6277	RS1/16S102J
	R6005, R6105, R6116, R6120, R6152	RS1/16S103J
	R6156, R6161, R6165, R6172, R6176	RS1/16S103J
	R6202, R6209, R6268, R6270	RS1/16S103J
	R6004, R6006, R6036, R6114, R6127	RS1/16S104J
	R6150, R6159, R6170	RS1/16S104J
	R6054, R6125	RS1/16S152J
	R6104, R6276	RS1/16S153J
	R6137, R6139	RS1/16S183J
	R6011, R6013, R6020–R6026	RS1/16S221J
	R6029–R6033, R6037, R6052, R6053	RS1/16S221J
	R6067, R6074, R6085, R6086, R6115	RS1/16S221J
	R6124, R6138, R6140–R6142, R6145	RS1/16S221J
	R6151, R6160, R6171	RS1/16S221J
	R6009, R6010, R6041, R6075–R6080	RS1/16S222J
	R6112, R6113, R6131, R6146	RS1/16S222J
	R6121, R6122, R6132–R6135	RS1/16S223J
	R6157, R6158, R6166, R6167	RS1/16S223J
	R6177, R6178, R6204, R6206	RS1/16S223J
	R6210–R6212	RS1/16S223J
	R6203	RS1/16S224J
	R6059, R6068, R6208	RS1/16S332J
	R6119, R6155, R6164, R6175	RS1/16S472J
	R6184, R6185, R6274	RS1/16S472J
	R6001, R6002, R6062, R6063	RS1/16S474J
	R6069, R6070, R6179, R6180	RS1/16S474J
	R6102, R6103	RS1/16S560J
	R6039, R6117, R6129, R6153, R6162	RS1/16S562J
	R6173	RS1/16S562J
	R6012, R6014–R6017, R6019	RS1/16S622J
	R6027, R6028, R6081–R6084	RS1/16S622J
	R6110, R6111	RS1/16S622J
	R6038, R6128	RS1/16S682J
	R6055, R6057	RS1/16S683J
	R6018, R6060, R6061, R6064–R6066	RS1/16S750J
	R6071–R6073, R6181, R6186–R6188	RS1/16S750J
	R6215–R6220	RS1/16S750J
	R6148, R6149, R6194	RS1/16S821J
	R6056, R6058	RS1/16S823J
	R6193	RS1/16S911J
	Other Resistors	RS1/10S □□□J

OTHERS

	CN6001	PIN JACK (6P) WITH SIN	AKB1285
	CN6002	PIN JACK (6P) WITH SIN	AKB1286
	CN6203	PIN JACK (6P)	AKB1287
	CN6205	PLUG 50–P	AKM1126
	JA6201, JA6206	JACK	AKN1071
	CN6006	L–PLUG (10P)	KM250MA10L
	CN6202	PLUG 3–P	KM250MA3LB
	CN6204	PLUG 3–P	KM250MA3LR

Mark	No.	Description	Part No.

■ For PRO-610HD and PRO-510HD

P POWER SUPPLY ASSY

SEMICONDUCTORS

Mark	No.	Part No.
⚠	IC101	AN8029
	IC204	MC33167TV
	IC901	MIP0253SP
	IC203	NJM79M05FA
	IC102, IC902, IC903	ON3171
	IC103	PC817CD
	IC201, IC202	PQ30RV11 (A)
	Q206, Q207, Q210, Q906	2SA933S
	Q205, Q901–Q905, Q907	2SC1740S
	Q202	2SC2705
	Q201	2SD1276A
⚠	Q101	2SK1544
	D102, D206, D207	10DF2
	D210–D213, D215–D219	1SS254
	D223, D224, D226, D227	1SS254
	D229, D230, D908, D910–D914	1SS254
	D915	BR3371XJ30A
	D101	D15XB60H
	D906, D907	D1NS4
	D201	D3L60
	D905	ERB06–15
	D909	HZS2BLL
	D228	HZS4BLL
	D209	HZS6A1L
	D222	HZS6B1L
	D214	HZS6C2L
	D105, D110	MA723
	D103	MTZJ24
	D104	MTZJ27B
	D111	RD12ESB
	D106–D109	RD5.1ESB
	D901	S1WB (A) 60B
	D208	SF5SC3L
	D204	YG802C06R
	D202, D203, D205	YG911S2R

COILS AND FILTERS

No.	Part No.
L103–L106	ATF1183
L201, L202, L214, L217, L218	ATH–059
L215, L216	ATH1046
L213	ATH1102
L902	ATX1008
L101, L102	ATX1021
L901	LAU2R2J

TRANSFORMERS

No.	Part No.
T901	ATK1133
T101	ATK1135

SWITCHES AND RELAYS

No.	Part No.
RY101, RY102	ASR1049

CAPACITORS

No.	Part No.
C113, C114, C242, C243	ACE1105
C115, C120–C122	ACE1125
C906	ACE1138
C905	ACE1144
C210 (100 pF)	ACG–032
C116, C117, C914, C915	ACG–501
C125 (3300 pF)	ACG1008
C111, C112, C126 (4700 pF)	ACG1028
C201	ACH1146
C101, C102	ACH1148
C205	ACH1304
C215, C216	CCCSL101K2H
C211–C214	CCCSL221K2H
C209	CEHAT100M2A
C208, C220, C234, C236, C241	CEHAT100M50
C912	CEHAT100M50
C107, C222, C229	CEHAT101M25
C226	CEHAT102M16
C108, C231, C909	CEHAT1R0M50
C110	CEHAT220M50
C202	CEHAT222M50
C908	CEHAT331M10
C245, C907	CEHAT331M16
C203, C204, C207	CEHAT332M35
C235, C910, C911, C913	CEHAT470M25
C901	CEHAT470M2D
C247	CEHAT472M10
C218, C246, C902	CFTXA104J50
C251	CFTXA563J50
C103	CKCYB561K50
C217	CKCYE103P2H
C109, C219, C223, C224	CKCYF103Z50
C227, C228, C230, C237, C238	CKCYF103Z50
C244	CKCYF473Z50
C232, C916	CQMA104J50
C104	CQMA182J50
C106	CQMA473J50
C105	CQMA822J50

RESISTORS

No.	Part No.
R102, R901	ACN1128
R120, R123 (2.2 MΩ)	BCN1022
R106	RD1/2MMF100J
R903	RD1/4MUF103J
R112	RD1/4MUF681J
R906	RN1/4PC1501F
R207	RN1/4PC1502F
R216	RN1/4PC1503F
R212, R213	RN1/4PC1603F
R208, R907	RN1/4PC1801F
R209	RN1/4PC2701F
R204	RN1/4PC2702F
R205, R206	RN1/4PC3301F
R214	RN1/4PC3901F
R217	RN1/4PC6801F

Mark	No.	Description	Part No.
	R117		RS1MMF151J
	R104, R105		RS1MMF333J
	R103		RS1MMF473J
	R210		RS2MMF223J
	R219, R249		RS2MMF3R3J
	R201		RS2MMF472J
	R246, R251		RS2MMF821J
	R109–R111		RS2MMFR22J
	R252		RS3LMF4R7J
	R121, R122, R218, R247		RT10PZ120K
	R101		RT5PZ1R8K
	R248		RT7PZ120K
	VR201, VR901		VRTHS6VS102
	Other Resistors		RD1/4PU □□□J

OTHERS

Mark	No.	Description	Part No.
	8008	SCREW	ABZ30P100FMC
	8001	SPACER	AEB1243
⚠	FU101	FUSE (10A)	AEK1069
	CN901	PLUG 2–P	AKM1127
	CN101, CN103	PLUG2–P	AKM1156
	H201–H208		AKR1003
	H101, H102	FUSE HOLDER	AKR1007
	8004	SCREW	BBZ30P080FCU
	8009	SCREW	BBZ30P080FZK
	CN205	PLUG 10–P	KM250MA10
	CN207	PLUG 12–P	KM250MA12
	CN212	PLUG 3–P	KM250MA3
	CN206	PLUG 4–P	KM250MA4
	CN204	PLUG 6–P	KM250MA6
	8000	SCREW	PBZ30P100FMC
	8010	SCREW	PMB30P100FMC
	8003	SCREW	PMZ30P100FZK
⚠	FU201	FUSE (4A)	REK1082
⚠	FU204	FUSE (5A)	REK1083
⚠	FU202, FU203	FUSE (6.3A)	REK1085

L DEFLECTION SERVICE ASSY

SEMICONDUCTORS

Mark	No.	Part No.
	IC303, IC601	NJM4558DXP
⚠	IC301	TA8638N
	Q315, Q316, Q604, Q605, Q804	2SA1145
	Q806	2SA1145
	Q808	2SA1837
	Q302, Q306, Q311, Q313, Q319	2SA933S
	Q321, Q322, Q326	2SA933S
×	Q607, Q608	2SA933S
	Q751, Q801	2SA933S
	Q301, Q304, Q305, Q307, Q310	2SC1740S
	Q312, Q318, Q320, Q327, Q602	2SC1740S
	Q614, Q752, Q802	2SC1740S
	Q314, Q317, Q603, Q606, Q803	2SC2705
	Q805, Q807	2SC2705
	Q308, Q601	2SC3332
	Q609	2SC3468
⚠	Q753, Q754	2SC4686A
	Q809	2SC4793
⚠	Q612	2SC5043
⚠	Q309	2SC5046
	Q324, Q613	2SC5197
	Q610	2SD1276A
	D302, D304, D601	10DF2
	D305–D314, D322, D603	1SS254
	D608, D609, D611, D614, D615	1SS254
	D621, D625, D751–D757	1SS254
⚠	D622, D623	2NU41
	D321	BR3371XJ30A
⚠	D318	DD52RC
	D328, D329, D343, D610	ERA22–02
	D613	ERB06–15
	D303, D602	ERB93–02L3
⚠	D316, D317	ERD07–15
	D801, D802	MTZJ39
	D315, D327, D604–D607	RD12ESB
	D344, D624	RD5.1ESB1
	D612	RD7.5ESB2
	D627	RD9.1ESB1
	D803–D806	S5688G

COILS AND FILTERS

Mark	No.	Part No.
	SG751	AEX1024
	L307, L308	ATH–059
⚠	T301	ATK1126
⚠	T302, T602	ATK1127
⚠ ×	T601	ATK1136
	L303–L306, L309, L601–L603	ATX1008
	L310, L605	LTA152J

CAPACITORS

Mark	No.	Part No.
⚠	C325 (100 pF)	ACG–032
	C754, C755 (4700 pF)	ACG1028
	C636	ACH–372
⚠	C324, C604 (10 µF/160V)	ACH1117
	C331, C335, C358, C606, C802	CCCSL101J50
	C336, C612	CCCSL101K2H
	C820–C822	CCCSL220J50
	C815	CCCSL221J50
	C326, C342	CCCSL470J50
	C304	CEANP2R2M50
	C806, C807	CEAT101M25
	C817	CEAT470M50
	C334	CEHAQ1R0M2C
	C353, C616	CEHAT100M2D
	C619, C621, C752	CEHAT100M50
	C308, C337, C349, C355, C608	CEHAT101M25
	C330, C605	CEHAT101M50
	C359	CEHAT102M35
	C357, C633	CEHAT1R0M50
	C620, C809, C818	CEHAT220M2D
	C635	CEHAT220M50
	C618	CEHAT220M63
	C328, C624, C625	CEHAT221M25
	C332, C613	CEHAT330M35
	C313	CEHAT331M16

Mark	No.	Description	Part No.
	C810		CEHAT3R3M2C
	C623, C751		CEHAT470M25
	C351, C352, C360, C361		CEHAT471M16
	C634		CEHAT4R7M2E
	C309, C341, C343		CEHAT4R7M50
⚠	C601, C602		CFPHW182H3D
⚠	C320		CFPHW332H3D
⚠	C321		CFPHW472H3D
⚠	C319, C322		CFPMW334J2G
	C323, C603		CFTXA105J50
	C312		CFTXA224J50
	C329		CFTXA683J50
	C311		CKCYB102K50
	C303		CKCYB103K50
	C607		CKCYB222K50
	C628		CKCYB332K2H
	C327, C611		CKCYB561K50
	C627		CKCYB682K50
	C637, C814, C819		CKCYE103P2H
	C615		CKCYE222P2H
	C315–C318, C333, C338–C340		CKCYF103Z50
	C350, C356, C609, C610, C614		CKCYF103Z50
	C617, C622, C626, C629, C753		CKCYF103Z50
	C801, C803, C808		CKCYF103Z50
	C804, C805, C816		CKCYF473Z50
	C813		CQMA104K2E
	C307		CQMA471J50
	C811, C812		CQMA472K2E
	C302		CQMA561J50
	C305		CQMA682J50
	C301		CQPA102J2A
	C314		CQPA333J2A
	C306		CQPA821J2A

RESISTORS

R769		ACN1011
R661 (27 Ω)		ACN1136
R826		RD1/2MMF100J
R815		RD1/2MMF332J
R770, R772–R776		RD1/2PM114J
R631		RD1/2PM122J
R365		RD1/2PM153J
R648		RD1/2PM154J
R771, R777–R781		RD1/2PM184J
R366, R618, R649		RD1/2PM223J
R757–R768		RD1/2PM224J
R813, R814		RD1/2PM270J
R801		RD1/2PM272J
R823, R824		RD1/2PM2R2J
R628		RD1/2PM333J
R617		RD1/2PM563J
⚠ R395, R634		RD1/4LMF100J
R635		RD1/4MUF100J
R827, R828		RD1/4MUF560J
⚠ R629, R630		RN1/2PC3902F
R328		RN1/4PC1002F
R646, R650		RN1/4PC1003F
× R645		RN1/4PC1003F
R419		RN1/4PC1202F
× R639		RN1/4PC1202F
R318		RN1/4PC1203F
R302		RN1/4PC1303F
R372		RN1/4PC1503F
R753		RN1/4PC2202F
R327		RN1/4PC2702F
R752		RN1/4PC3302F
R783		RN1/4PC3601F
R755		RN1/4PC4701F
R754		RN1/4PC56R0F
R373, R421		RN1/4PC6801F
× R640		RN1/4PC6801F
R782		RN1/4PC7501F
× R644		RN1/4PC7502F
R301, R647		RN1/4PC8201F
R338, R604		RS1MMF100J
R809, R810		RS1MMF472J
R658, R659		RS2MMF101J
R336, R337, R339, R602, R603		RS2MMF1R0J
R621, R622		RS2MMF1R8J
R333, R601		RS2MMF222J
R819–R821		RS2MMF271J
R358, R359		RS2MMF2R2J
R355		RS2MMF390J
R660		RS2MMFR56J
R822, R825, R831		RS3LMF471J
⚠ R392		RT5PZ561K
× VR601		VRTHS6VS102
VR301		VRTHS6VS222
× VR602		VRTHS6VS223
VR603		VRTHS6VS223
VR302		VRTHS6VS473
× R637, R638		RD1/4PU102J
× R642		RD1/4PU821J
× R643		RD1/4PU822J
Other Resistors		RD1/4PU □□□ J

OTHERS

J602	H.V.RETURN WIRE	ADX2486
J601	1P READ WIRE	ADX2492
J603	HV CABLE (400)	ADY1043
301, 309, 601	ISOLATION SHEET	AEB1358
602	NYLON BINDER	AEC–093
⚠ CN301–CN303	PLUG 3–P	AKM1055
CN751	PLUG 3–P	AKM1055
305, 607	SCREW	BBZ30P080FCU
CN304	PLUG 12–P	KM250MA12
CN305	PLUG 12–P	KM250MA13
CN309	PLUG 4–P	KM250MA4
CN307	PLUG 5–P	KM250MA5
CN308	PLUG 6–P	KM250MA6
CN306	PLUG 6–P	KM250MA6R
CN801	PLUG 9–P	KM250MA9
304, 605	SCREW	PMB30P160FZK
306, 604, 606, 752, 802	SCREW	PMZ30P100FZK
608	SCREW	VPZ40P120FMC

Mark	No.	Description	Part No.

K CONV. AMP ASSY

SEMICONDUCTORS

	IC1002	CA0007AD
	IC1004, IC1005	M5220P
	IC1003	PA0053B
	IC901, IC903	STK392–110
	IC1001	TC4052BP
	Q902, Q905, Q908, Q909, Q917	2SA933S
	Q914	2SB950A
	Q901, Q903, Q906, Q907	2SC1740S
	Q910–Q912, Q915, Q916	2SC1740S
	Q904, Q918	2SC2878
	Q913	2SD1276A
	D1014, D1015, D907–D911	1SS254
	D921, D922, D924	1SS254
	D923	BR3371XJ30A
	D1001–D1013	RD12ESB
	D901–D906, D915–D920	S5688G

COILS AND FILTERS

	L901, L902	ATH–059
	L903, L904	ATX1008

CAPACITORS

	C1001, C1022, C1023, C1025, C1041	CCCSL101J50
	C909, C911, C912	CCCSL151J50
	C917–C919, C934–C936	CCCSL220J50
	C905	CEANP101M25
	C953	CEAT100M50
	C1013–C1017, C1019, C1029, C1030	CEAT101M10
	C1035	CEAT101M10
	C906	CEAT101M25
	C1039	CEAT220M50
	C1036, C1037	CEAT330M16
	C1038	CEAT470M10
	C1004, C945	CEAT470M25
	C921, C922, C938, C939	CEHAT102M25
	C920, C923, C937	CEHAT102M35
	C952	CEHAT221M25
	C908	CEHAT221M35
	C949	CEHAT332M25
	C948	CEHAT332M35
	C940	CEHAT471M35
	C1040	CFTYA184J50
	C1028, C1034	CFTYA224J50
	C910, C913, C950	CKCYB102K50
	C924–C926, C941–C943	CKCYB331K50
	C914–C916, C931–C933	CKCYB681K50
	C1002, C1003, C1005–C1012, C1018	CKCYF103Z50
	C1020, C1021, C1026, C1027	CKCYF103Z50
	C1031–C1033, C901–C904, C907	CKCYF103Z50
	C927–C930, C944, C946, C947	CKCYF103Z50
	C951, C954–C957	CKCYF103Z50

Mark	No.	Description	Part No.

RESISTORS

	R933, R955	RD1/2MMF470J
	R934, R940–R942, R956	RS1MMF470J
	R922	RS1MMF562J
	R935, R936, R957, R958	RS1MMFR47J
	R927–R929, R978–R980	RS2MMF121J
	R985	RS2MMF1R2J
	R960, R961	RS2MMF1R5J
	R930, R931, R981–R983	RS2MMF221J
	R976, R977	RS2MMF2R2J
	R914, R988	RS2MMFR47J
	R937, R938, R959	RS3LMF1R5J
	R932	RS3LMF221J
	R998	RS3LMFR68J
	R939	RS3LMFR82J
	Other Resistors	RD1/4PU□□□J

OTHERS

	903	SCREW	BBZ30P080FCU
	CN905	PLUG 10–P	KM200IA10
	CN904	16P PLUG	KM200IA16
	CN901	PLUG 6–P	KM250MA6
	CN903	PLUG 6–P	KM250MA6B
	CN902	PLUG 6–P	KM250MA6R
	901	SCREW	PMB30P160FZK
	902	SCREW	PMZ30P100FZK

M R CRT DRIVE ASSY

SEMICONDUCTORS

	IC5101	TDA6120Q
	Q5101	2SC1740S
	D5101–D5106	S5688G

COILS AND FILTERS

	SG5101, SG5102	AEX1024
	L5102	LAU2R2J
	L5101	LAU3R3J
	L5103	LTA562J

CAPACITORS

	C5108 (1000 pF)	ACG1001
	C5107, C5114 (22 μF/250V)	ACH1318
	C5103	CCCSL120J50
	C5101	CCCSL390J50
	C5102	CCCSL7R0D50
	C5110	CEAT101M25
	C5109	CEAT222M16
	C5111, C5113	CKCYE103P2H
	C5104, C5106	CKCYF103Z50

RESISTORS

	R5115 (47 Ω)	ACN1129
	R5116 (220 Ω)	ACN1131
	R5118 (470 Ω)	ACN1133
	R5117	RD1/2LMF100J
	R5101	RS1MMF6R8J

Mark	No.	Description	Part No.
	R5112–R5114		RS3LMF822J
	VR5101		VRTHS6VS222
	Other Resistors		RD1/4PU□□□J
OTHERS			
	5104	CRT SOCKET	AKG1006
	5107, 5108	SCREW	BBZ30P080FCU
	5103–5106	SCREW	BPZ30P100FZK
	CN5105	PLUG 3–P	KM250MA3
	CN5106	PLUG 3–P	KM250MA3R
	CN5102	PLUG 5–P	KM250MA5B
	CN5101	PLUG 5–P	KM250MA5R
	5101, 5102	SCREW	PMB30P160FZK

N G CRT DRIVE ASSY

SEMICONDUCTORS

	IC5151	TDA6120Q
	Q5151	2SC1740S
	D5151–D5156	S5688G

COILS AND FILTERS

	SG5151, SG5152	AEX1024
	L5152	LAU2R2J
	L5151	LAU3R3J
	L5153	LTA562J

CAPACITORS

	C5158 (1000 pF)	ACG1001
	C5157, C5164 (22 µF/250V)	ACH1318
	C5153	CCCSL120J50
	C5151	CCCSL560J50
	C5152	CCCSL7R0D50
	C5160	CEAT101M25
	C5159	CEAT222M16
	C5161, C5163	CKCYE103P2H
	C5154, C5156, C5165	CKCYF103Z50

RESISTORS

	R5164 (47 Ω)	ACN1129
	R5165 (220 Ω)	ACN1131
	R5168 (470 Ω)	ACN1133
	R5167	RD1/2LMF100J
	R5151	RS1MMF6R8J
	R5161–R5163	RS3LMF822J
	VR5151	VRTHS6VS222
	Other Resistors	RD1/4PU□□□J

OTHERS

	J5152	LEAD WITH HOUSING	ADX2493
	5154	CRT SOCKET	AKG1006
	5157, 5158	SCREW	BBZ30P080FCU
	5153–5156	SCREW	BPZ30P100FZK
	CN5156	PLUG 3–P	KM250MA3
	CN5157	PLUG 3–P	KM250MA3B
	CN5151	PLUG 5–P	KM250MA5
	5151, 5152	SCREW	PMB30P160FZK

Mark	No.	Description	Part No.

O B CRT DRIVE ASSY

SEMICONDUCTORS

	IC5201	TDA6120Q
	Q5201	2SC1740S
	D5201–D5206	S5688G

COILS AND FILTERS

	SG5201, SG5202	AEX1024
	L5202	LAU1R0J
	L5201	LAU4R7J
	L5203	LTA562J

CAPACITORS

	C5208 (1000 pF)	ACG1001
	C5207, C5214 (22 µF/250V)	ACH1318
	C5201–C5203	CCCSL220J50
	C5210	CEAT101M25
	C5209	CEAT222M16
	C5211, C5213	CKCYE103P2H
	C5204, C5206	CKCYF103Z50

RESISTORS

	R5214 (47 Ω)	ACN1129
	R5215 (220 Ω)	ACN1131
	R5218 (470 Ω)	ACN1133
	R5217	RD1/2LMF100J
	R5201	RS1MMF6R8J
	R5211–R5213	RS3LMF822J
	VR5201	VRTHS6VS222
	Other Resistors	RD1/4PU□□□J

OTHERS

	J5203	LEAD WITH HOUSING	ADX2493
	5204	CRT SOCKET	AKG1006
	5207, 5208	SCREW	BBZ30P080FCU
	5203–5206	SCREW	BPZ30P100FZK
	CN5206	PLUG 3–P	KM250MA3
	CN5207	PLUG 3–P	KM250MA3B
	CN5201	PLUG 5–P	KM250MA5B
	5201, 5202	SCREW	PMB30P160FZK

I DIGITAL CONV. ASSY

SEMICONDUCTORS

	IC1656	24LC08B (I) P
	IC1410	24LC128 (I) P
	IC1401	CM0006CF
	IC1420	M51952BML
	IC1655	MC14066BF
	IC1411, IC1419	NJM4558MD
	IC1652	PD5564
	IC1653	PST9146N
	IC1409	TC74HC14AF
	IC1654	TC74HC157AF
	IC1421	TC74HC4053AF
	IC1651	TC74HC4538AF
	IC1402	TLC2932IPW

Mark	No.	Description	Part No.
	IC1412–IC1418		UPC4570G2
	IC1403–IC1408		UPD6376GS
	Q1401, Q1651		2SC2712
	Q1403, Q1652		2SJ461
	D1409		1SS181
	D1677		1SS184
	D1401–D1407, D1651, D1654–D1657		1SS226
	D1661–D1665, D1667–D1670		1SS226
	D1673–D1676		1SS226
	D1652, D1666		RD6.8MB

COILS AND FILTERS

	L1651	ATC1037
	F1401–F1403	ATF1189
	L1402	ATH1046
	L1401, L1403, L1405, L1407, L1409 (470 µH)	ATH1097
	L1411, L1413 (470 µH)	ATH1097
	L1415–L1420, L1424, L1425	QTL1013
	L1428, L1429, L1432, L1433	QTL1013
	L1436, L1437	QTL1013

CAPACITORS

	C1401, C1405, C1421, C1425, C1426	CCSQCH100D50
	C1430, C1431, C1435, C1436	CCSQCH100D50
	C1440, C1441, C1445, C1446, C1450	CCSQCH100D50
	C1540, C1542, C1544, C1546	CCSQCH101J50
	C1659, C1660	CCSQCH150J50
	C1434	CCSQCH181J50
	C1671	CCSQCH221J50
	C1451	CCSQCH471J50
	C1539	CCSQSL220J50
	C1551	CEAT102M6R3
	C1655	CEV101M6R3
	C1672	CEV1R0M50
	C1415	CEV2R2M50
	C1406, C1408, C1411, C1413, C1429	CEV470M6R3
	C1458, C1461, C1467, C1470, C1473	CEV470M6R3
	C1475, C1483, C1485, C1497, C1498	CEV470M6R3
	C1500, C1505, C1506, C1508	CEV470M6R3
	C1510, C1511, C1515, C1516, C1518	CEV470M6R3
	C1520, C1521, C1525, C1526, C1530	CEV470M6R3
	C1532, C1535, C1536, C1538, C1541	CEV470M6R3
	C1543, C1545, C1548, C1652, C1661	CEV470M6R3
	C1665, C1669	CEV470M6R3
	C1453	CEVNP4R7M16
	C1456	CEVR22M50
	C1454	CFHSQ103J16
	C1402, C1422, C1427, C1432, C1437	CFHSQ471J50
	C1442, C1447	CFHSQ471J50
	C1403, C1423, C1428, C1433, C1438	CFHSQ472J16
	C1443, C1448	CFHSQ472J16
	C1654, C1673	CFHSQ561J50
	C1452	CFHSQ821J50
	C1680	CKCYF103Z50
	C1658, C1663, C1664	CKSRYB102K50
	C1667	CKSRYB561K50
	C1404, C1407, C1409, C1410, C1412	CKSRYF103Z50
	C1414, C1416–C1418, C1420, C1424	CKSRYF103Z50
	C1455, C1457, C1459, C1460, C1463	CKSRYF103Z50
	C1465, C1466, C1468, C1469	CKSRYF103Z50
	C1471, C1472, C1474, C1476	CKSRYF103Z50
	C1478, C1479, C1481, C1482, C1484	CKSRYF103Z50
	C1486, C1488, C1489, C1491, C1492	CKSRYF103Z50
	C1494, C1496, C1499, C1501, C1502	CKSRYF103Z50
	C1504, C1507, C1509, C1512, C1514	CKSRYF103Z50
	C1517, C1519, C1522, C1524	CKSRYF103Z50
	C1527, C1528, C1534, C1537	CKSRYF103Z50
	C1549, C1550, C1651, C1653	CKSRYF103Z50
	C1656, C1657, C1662, C1666, C1670	CKSRYF103Z50
	C1668	CKSRYF104Z16

RESISTORS

	R1731	RD1/4LMF2R7J
	R1404, R1412, R1416, R1419, R1424	RS1/16S1002F
	R1428, R1431, R1436, R1440	RS1/16S1002F
	R1454–R1456	RS1/16S1002F
	R1520, R1522, R1524, R1526, R1528	RS1/16S2402F
	R1530	RS1/16S2402F
	R1655	RS1/16S3901F
	R1401, R1514–R1518	RS1/16S4302F
	Other Resistors	RS1/16S □□□J

OTHERS

	202, 203	CABLE HOLDER	AKT1011
	X1651	CERAMIC RESONATOR	ASS1015
	CN1655	CONNECTOR	B12B–PH–SM3
	CN1654	CONNECTOR	B8B–PH–SM3
	CN1651	PLUG 10–P	KM250MA10
	CN1652	PLUG 6–P	KM250MA6
	CN1653	PLUG 7–P	KM250MA7

J CONNECTOR ASSY

OTHERS

	1801, 1802	CABLE HOLDER	AKT1011
	J1801, J1802	JUMPER WIRE	D15A13–100–2651
	CN1803	10P SOCKET	KP200IA10L
	CN1804	16P SOCKET	KP200IA16L

S FRONT CONTROL ASSY

SWITCHES AND RELAYS

	S5001–S5008	ASG1034

CAPACITORS

	C5003	CEV101M6R3
	C5004, C5005	CKSRYF103Z50

RESISTORS

	R5014	RS1/16S101J
	R5012, R5019	RS1/16S102J
	R5015	RS1/16S181J
	R5018	RS1/16S222J
	R5016	RS1/16S301J

Mark	No.	Description	Part No.
	R5013		RS1/16S470J
	R5017		RS1/16S561J
	R5020		RS1/16S622J
OTHERS			
	J5001	7P HOUSING WIRE	ADX2500
	CN5001	PLUG 8–P	KM250MA8

T LED DPO ASSY

SEMICONDUCTORS

	Q5001, Q5005	2SA1162
	Q5002, Q5004	2SC2712
	D5002	1SS181
	D5007	AEL1177
	D5006	NSPWF50S–8038
	D5008	SLR–56PC (LMN)
	PC5001	P1241–09

CAPACITORS

	C5001	CEV100M16
	C5002	CEV330M25

RESISTORS

	R5001	RD1/2LMF820J
	R5072, R5073, R5077	RS1/16S0R0J
	R5011	RS1/16S102J
	R5035, R5036	RS1/16S103J
	R5005	RS1/16S152J
	R5064, R5065	RS1/16S223J
	R5007	RS1/16S273J
	R5010	RS1/16S334J
	R5002, R5003	RS1/16S473J
	R5008	RS1/16S562J
	R5004	RS1/2S821J
	VR5001	VRTS6VS473
	Other Resistors	RS1/10S □□□J

OTHERS

	5001	DPO HOLDER	AMR2294

C BNC ASSY

OTHERS

	J5025	3P HOUSING WIRE	ADX2494
	CN5022	CONNECTOR	AKX1002
	5021	SCREW TERMINAL	VNE1949

D SR ASSY

CAPACITORS

	C5072	CCSQCH121J50
	C5071	CEV101M6R3

Mark	No.	Description	Part No.
RESISTORS			
	R5080		RS1/16S0R0J
	R5071		RS1/16S102J
OTHERS			
	CN5071	PLUG 3–P	KM250MA3B
		REMOTE RECEIVER UNIT	GP1U28X

R FRONT INPUT ASSY

SEMICONDUCTORS

	Q5041, Q5042	2SC2712
	D5041, D5042	RD15MB

CAPACITORS

	C5043, C5044	CEV1R0M50
	C5041	CEV470M16
	C5042, C5045	CKSRYF103Z50

RESISTORS

	R5043	RD1/4LMF101J
	R5082	RS1/16S0R0J
	R5054, R5055	RS1/16S222J
	R5046, R5049–R5051	RS1/16S473J
	R5047, R5048	RS1/16S474J
	R5041, R5044, R5045	RS1/16S750J
	Other Resistors	RS1/10S □□□J

OTHERS

	CN5042	PIN JACK (3P) WITH SIN	AKB1261
	CN5041	PLUG 12–P	KM250MA13

Q POWER SW ASSY

SWITCHES AND RELAYS

	S5081	ASG1084

OTHERS

	CN5081	PLUG 2–P	AKM1127

F RGB SW ASSY

SWITCHES AND RELAYS

	S5091	ASH1029

RESISTORS

	R5096	RS1/16S101J
	R5091–R5095	RS1/16S750J

OTHERS

	CN5092	15PD–SUB SOCKET	AKP1195
	CN5091	8P PLUG	KM250NA8L

Mark	No.	Description	Part No.

G AUDIO ASSY

SEMICONDUCTORS

	IC1202	LA4280–P
	IC1203–IC1205	NJM4558MD
	IC1201	UPC1853CT–01
	Q1206	2SA1162
	Q1201–Q1203, Q1207, Q1210–Q1213	2SC2712
	Q1208, Q1209	2SC4213
	D1205	1SS226

CAPACITORS

	C1239 (470 µF/10V)	ACH1334
	C1242, C1243	CCSQCH151J50
	C1245	CEHAT102M50
	C1228, C1229	CEHV2R2M50
	C1204	CEV1R0M50
	C1205, C1214, C1215, C1237	CEV220M16
	C1246, C1247	CEV220M16
	C1234	CEV221M35
	C1202, C1203	CEV2R2M50
	C1235, C1236	CEV330M25
	C1206, C1207	CEV3R3M50
	C1208, C1212, C1263, C1267	CEV470M16
	C1240, C1241	CEVR47M50
	C1218, C1221	CFHS223J16
	C1210, C1211, C1244	CFHSP104J16
	C1201	CFHSP823J16
	C1219	CFHSQ102J50
	C1217	CFHSQ222J50
	C1223	CFHSQ681J50
	C1220, C1222	CFHSQ682J16
	C1216, C1230, C1231, C1233	CFTYA104J50
	C1250, C1256	CKSQYB183K50
	C1264, C1265	CKSRYB102K50
	C1248, C1254	CKSRYB152K50
	C1251, C1257	CKSRYB332K50
	C1249, C1255	CKSRYB682K50
	C1209, C1213, C1226, C1227, C1232	CKSRYF103Z50
	C1262, C1266	CKSRYF103Z50

RESISTORS

	R1245	RS1/2S561J
	R1228, R1229	RD1/4LMF2R2J
	R1291	RD1/4LMF3R9J
	Other Resistors	RS1/16S □□□J

OTHERS

1201	ISOLATION SHEET	AEB1359
1202	PLATE SPRING	ANG1569
1201	SCREW	BBZ30P080FCU
CN1201	11P SOCKET	KP200IA11L
CN1202	12P SOCKET	KP200IA12L

Mark	No.	Description	Part No.

E VIDEO ASSY

SEMICONDUCTORS

	IC5254	CXA1315P
	IC5602	PQ30RV11 (A)
	IC5601	PQ3RF23
	IC5251	TA1276AN
	IC5256	TC74HC4053AP
	IC5252	TC74HC4538AP
	Q5251–Q5255, Q5260–Q5264, Q5266	2SA933S
	Q5268, Q5270, Q5276, Q5277	2SA933S
	Q5285–Q5287, Q5290, Q5301	2SA933S
	Q5305, Q5306, Q5318, Q5323	2SA933S
	Q5331–Q5333, Q5341, Q5601, Q5602	2SA933S
	Q5606–Q5608, Q5611, Q5621, Q5622	2SA933S
	Q5257, Q5259, Q5265, Q5272–Q5275	2SC1740S
	Q5278–Q5281, Q5288, Q5289, Q5302	2SC1740S
	Q5307–Q5310, Q5319, Q5320	2SC1740S
	Q5328–Q5330, Q5340, Q5342	2SC1740S
	Q5603–Q5605, Q5609	2SC1740S
	Q5613–Q5620	2SC1740S
	Q5267, Q5269, Q5271	2SC2235
	D5251–D5283, D5293–D5297	1SS254
	D5308–D5310, D5314–D5319	1SS254
	D5329–D5338, D5340–D5347	1SS254
	D5349–D5362, D5601	1SS254
	D5603–D5605, D5608–D5620	1SS254
	D5298–D5306, D5320–D5328	MTZJ11
	D5284–D5292	S5688G

COILS AND FILTERS

	L5601–L5603, L5605	ATH–059
	L5251	LAU100J
	L5253	LAU1R0J
	L5252	LAU4R7J

CAPACITORS

	C5259	CCCCH271J50
	C5298, C5299	CCCCH7R0D50
	C5332, C5629–C5631	CCCSL150J50
	C5296	CCCSL151J50
	C5322, C5334	CCCSL180J50
	C5288	CCCSL220J50
	C5295	CCCSL2R0C50
	C5605	CCCSL330J50
	C5287	CCCSL560J50
	C5269, C5281, C5282, C5297, C5321	CEAT100M50
	C5336, C5619	CEAT100M50
	C5251, C5255, C5312, C5324, C5340	CEAT101M10
	C5601, C5602, C5622	CEAT101M10
	C5309, C5604	CEAT101M16
	C5610, C5612	CEAT102M16
	C5616, C5617	CEAT102M25
	C5274, C5284	CEAT1R0M50
	C5301, C5331	CEAT220M50
	C5270	CEAT221M10
	C5319	CEAT221M16
	C5607, C5608, C5623	CEAT222M10
	C5272, C5283	CEAT2R2M50

Mark	No.	Description	Part No.
	C5292		CEAT470M16
	C5613		CEAT471M16
	C5261		CEAT471M6R3
	C5285		CEAT4R7M50
	C5257, C5258, C5271, C5273		CEATR10M50
	C5286		CEATR47M50
	C5252–C5254, C5256, C5262, C5278		CKCYF103Z50
	C5293, C5294, C5310, C5311		CKCYF103Z50
	C5316–C5318, C5325, C5339, C5341		CKCYF103Z50
	C5603, C5624–C5628		CKCYF103Z50
	C5263–C5268, C5275–C5277		CQMA104J50
	C5323		CQPA103J2A
	C5300		CQPA223J2A
	C5260		CQPA271J2A

RESISTORS

	R5326, R5331, R5336		RD1/2PM100J
	R5285–R5287		RD1/2PM101J
	R5656, R5657		RD1/2PM152J
	R5323, R5328, R5333		RD1/2PM821J
	R5317, R5319, R5321		RD1/2PM8R2J
	R5309		RN1/4PC1002F
	R5310		RN1/4PC1102F
	R5346, R5587		RN1/4PC1201F
	R5297		RN1/4PC1202F
	R5586		RN1/4PC1300F
	R5303		RN1/4PC1501F
	R5345, R5644		RN1/4PC1502F
	R5711		RN1/4PC1801F
	R5353		RN1/4PC2002F
	R5298		RN1/4PC2201F
	R5307		RN1/4PC2700F
	R5344, R5643		RN1/4PC2701F
	R5295, R5296, R5304, R5347		RN1/4PC3301F
	R5469, R5470		RN1/4PC3301F
	R5349, R5354		RN1/4PC3302F
	R5311		RN1/4PC4702F
	R5343		RN1/4PC5101F
	R5306, R5308		RN1/4PC5601F
	R5302, R5305		RN1/4PC7500F
	R5294, R5300		RN1/4PC8200F
	R5348		RN1/4PC9102F
	R5645, R5646		RS2MMF1R0J
	R5663, R5712		RS3LMFR22J
	VR5251, VR5252 (22 kΩ)		ACP1072
	Other Resistors		RD1/4PU□□□J

OTHERS

	CN5601, CN5603, CN5604		AKP1161
		SOCKET 50–P	
	CN5602, CN5605	SOCKET 44–P	AKP1186
	KN5601–KN5604	GROUND PLATE	ANK–142
	CN5607	11P PLUG	KM200IA11
	CN5609	12P PLUG	KM200IA12
	CN5255	PLUG 11–P	KM250MA11
	CN5251	PLUG 15–P	KM250MA15
	CN5252	PLUG 3–P	KM250MA3
	CN5611	PLUG 4–P	KM250MA4
	CN5610	PLUG 6–P	KM250MA6

Mark	No.	Description	Part No.
	CN5606	8P SOCKET	KP250NA8
	5602, 5604	SCREW	PMZ30P100FZK

A SIGNAL ASSY

SEMICONDUCTORS

	IC2452		M38869FFAHP
	IC2454		24LC32A (I) P
	IC7703		CM0010AF
	IC6305		CXA1315M
	IC2701		CXA2094Q
	IC7002		HY514264BJC–50A
	IC7704		KIA431F
	IC7702		LC32V4265JL–25S
	IC7003		MB40C568HPFV
	IC2451, IC2702		MC14066BF
	IC7501		ML6420CS–3
	IC7006		ML6428CS–1
	IC7301, IC7304		MM1031XM
	IC7103, IC7303, IC7305, IC7306		NJM2233BM
	IC7503		NJM2283M
	IC2703, IC2801, IC7004, IC7308, IC7701		PQ20VZ1U
	IC2453		PST9146N
	IC7101, IC7300		TA1270AF
	IC6301–IC6304		TC74HC4053AF
	IC7505		TC74HC4066AF
	IC7504		TC74HC4538AF
	IC7307		TC90A45F
	IC7102, IC7302, IC7502		TK15420M
	IC7001		UPD64081BGF–3BA
	Q2452, Q2454, Q2701, Q2706, Q2713		2SA1162
	Q2715, Q2804, Q2805, Q6301		2SA1162
	Q6303, Q6304, Q6306, Q6308, Q6310		2SA1162
	Q6313–Q6322, Q6324, Q6325, Q6361		2SA1162
	Q6363, Q7002, Q7003, Q7005, Q7006		2SA1162
	Q7009, Q7108, Q7118–Q7124, Q7311		2SA1162
	Q7316, Q7318, Q7319, Q7323–Q7325		2SA1162
	Q7528		2SA1162
	Q2453, Q2455–Q2457, Q2459–Q2464		2SC2712
	Q2702–Q2705, Q2707, Q2708, Q2711		2SC2712
	Q2714, Q2801–Q2803, Q2806		2SC2712
	Q2808–Q2810, Q6328–Q6360, Q6362		2SC2712
	Q7001, Q7004, Q7007, Q7008		2SC2712
	Q7010, Q7011, Q7013–Q7015		2SC2712
	Q7101–Q7105, Q7107, Q7111		2SC2712
	Q7113–Q7117, Q7125, Q7128		2SC2712
	Q7300, Q7301, Q7303, Q7304, Q7309		2SC2712
	Q7312–Q7315, Q7317, Q7320		2SC2712
	Q7501, Q7502, Q7505, Q7507–Q7527		2SC2712
	Q7529, Q7530		2SC2712
	Q2451, Q6302, Q6305, Q6307, Q6309		2SC4213
	Q6311, Q6312, Q6323, Q6326, Q6327		2SC4213
	Q7307, Q7308, Q7310		2SC4213
	Q2458		2SJ461
	Q7012		2SK209
	D2454, D2455, D2490		1SS184
	D2456, D2457, D2460–D2469		1SS226

Mark	No.	Description	Part No.
	D2475–D2484, D2486, D2488		1SS226
	D2703–D2707, D2801, D2802, D2805		1SS226
	D6301–D6309, D6316–D6320		1SS226
	D2451–D2453, D2458, D2459, D2485		1SS352
	D2489, D6310, D6313, D7001, D7504		1SS352
	D7300, D7301, D7501–D7503		RD10MB
	D2487		RD6.8MB
	D2709, D2804		UDZ33B

COILS AND FILTERS

	L2457	ATF–163
	F7001, F7002, F7004, F7701–F7704	ATF1189
	DL7101	ATN1054
	L2451, L2452	ATX1035
	L7008, L7011, L7102, L7504	LCTA100J3225
	L7302	LCTA101J3225
	L7103, L7306	LCTA120J3225
	L7101	LCTA121J3225
	L7009, L7012	LCTA150J3225
	L6302, L7010, L7106, L7303–L7305	LCTA220J3225
	L7505	LCTA220J3225
	L2701–L2705, L2801–L2804	LCTA2R2J3225
	L7104	LCTA3R9J3225
	L7001	LCTA4R7J3225
	L7105, L7107, L7300, L7307, L7506	LCTA5R6J3225
	L7002, L7003, L7005–L7007	QTL1013
	L7705, L7706	QTL1013

CAPACITORS

	C7114, C7317 (0.47 µF/16V)	ACE1130
	C7140, C7340, C7361, C7363	CCSQCH120J50
	C7051, C7062, C7136, C7138, C7554	CCSQCH121J50
	C7060	CCSQCH150J50
	C7355, C7357	CCSQCH181J50
	C7362, C7364	CCSQCH270J50
	C7139	CCSQCH331J50
	C2727, C2811, C6373, C6374	CCSQCH470J50
	C7014	CCSQCH471J50
	C7137	CCSQCH680J50
	C7365, C7370	CCSQCJ3R0C50
	C7102, C7301	CCSQSL222J50
	C7008	CCSQSL391J50
	C7057, C7063	CCSRCH100D50
	C2732, C2822, C7033, C7520, C7521	CCSRCH101J50
	C7523, C7524, C7526, C7527, C7553	CCSRCH101J50
	C7555, C7556	CCSRCH101J50
	C7002, C7003	CCSRCH180J50
	C7047, C7050, C7146, C7550	CCSRCH220J50
	C7059, C7145, C7356, C7372, C7532	CCSRCH330J50
	C7535, C7551, C7552	CCSRCH330J50
	C7058, C7064	CCSRCH560J50
	C7512	CCSRCH680J50
	C2478	CEAT222M10
	C2479	CEAT222M16
	C2702, C2703, C2725, C2729, C2737	CEV100M16
	C2740, C2741, C2747, C2802–C2804	CEV100M16
	C2815, C6325, C6348, C7010	CEV100M16
	C7125, C7126, C7329, C7330	CEV100M16
	C7344–C7347, C7504–C7506	CEV100M16
	C7508, C7509, C7522, C7525, C7559	CEV100M16
	C7725–C7730, C7760	CEV100M16
	C2738, C2746, C2818, C2821	CEV100M50
	C2454, C2462, C2467, C2473, C7027	CEV101M6R3
	C7029, C7039, C7515, C7704–C7706	CEV101M6R3
	C7755	CEV101M6R3
	C7105	CEV102M6R3
	C2705, C2709, C7052, C7054, C7055	CEV1R0M50
	C7341, C7343, C7358	CEV1R0M50
	C2476, C6301–C6306, C6308–C6310	CEV220M16
	C6312–C6317, C6322–C6324	CEV220M16
	C6368–C6370, C7133–C7135	CEV220M16
	C7337–C7339	CEV220M16
	C2735, C2814, C7034, C7036, C7038	CEV221M10
	C7511	CEV221M10
	C7103, C7104, C7302, C7303	CEV2R2M50
	C2453, C2717, C6320, C6332, C6339	CEV470M16
	C6355, C6357, C6363–C6365, C7053	CEV470M16
	C7128, C7130, C7141, C7143, C7332	CEV470M16
	C7335, C7336, C7529	CEV470M16
	C2455, C7025, C7061, C7147, C7304	CEV470M6R3
	C7342, C7349, C7351, C7501, C7510	CEV470M6R3
	C7518, C7519, C7546, C7548, C7716	CEV470M6R3
	C7723, C7732, C7734	CEV470M6R3
	C2720, C2721, C2723, C2801, C2808	CEV471M10
	C2810	CEV471M10
	C2451, C2452, C2701, C2706, C2707	CEV4R7M35
	C2714–C2716, C2718, C2750, C2751	CEV4R7M35
	C6326, C6349	CEV4R7M35
	C7101, C7300	CEVR22M50
	C2708	CFHS123J16
	C7107, C7307	CFHS223J16
	C2712	CFHS473J16
	C7106, C7108–C7113, C7306	CFHSP104J16
	C7311–C7316	CFHSP104J16
	C2713	CFHSQ272J50
	C2711	CKSQYB562K50
	C2719, C2722, C2724, C2726	CKSQYF103Z50
	C2730, C2731, C2734, C2736, C2739	CKSQYF103Z50
	C2745, C2805, C2806, C2809	CKSQYF103Z50
	C2816, C2817, C2819, C7348, C7350	CKSQYF103Z50
	C7352–C7354, C7359, C7360	CKSQYF103Z50
	C7366–C7369, C7371	CKSQYF103Z50
	C7745–C7753, C7761–C7763, C7769	CKSQYF105Z16
	C7772	CKSQYF105Z16
	C7754	CKSQYF224Z25
	C2459, C2464, C2728, C2748, C2807	CKSRYB102K50
	C2812	CKSRYB102K50
	C2457, C2458, C2460, C2463, C2465	CKSRYB103K50
	C6307, C6311, C6318, C6321	CKSRYB103K50
	C6328–C6331, C6333, C6335–C6338	CKSRYB103K50
	C6340, C6342–C6347, C6351–C6353	CKSRYB103K50
	C6356, C6358–C6362, C6366, C6367	CKSRYB103K50
	C7012, C7148, C7305, C7766	CKSRYB103K50
	C7756, C7758	CKSRYB152K50
	C7765	CKSRYB683K16
	C2456, C2461, C2468–C2472, C2474	CKSRYF104Z16

Mark	No.	Description	Part No.
	C2477, C2480, C7001, C7004–C7007		CKSRYF104Z16
	C7009, C7011, C7013, C7015–C7024		CKSRYF104Z16
	C7026, C7028, C7030–C7032, C7035		CKSRYF104Z16
	C7037, C7041, C7046, C7048, C7049		CKSRYF104Z16
	C7056, C7116, C7117, C7120, C7124		CKSRYF104Z16
	C7127, C7129, C7142, C7144, C7323		CKSRYF104Z16
	C7327, C7331, C7333, C7502, C7503		CKSRYF104Z16
	C7507, C7514, C7528, C7545, C7547		CKSRYF104Z16
	C7557, C7558, C7701–C7703		CKSRYF104Z16
	C7707–C7715, C7717–C7722, C7724		CKSRYF104Z16
	C7731, C7733, C7735–C7744		CKSRYF104Z16
	C7767, C7768, C7770, C7771		CKSRYF104Z16
	C7764		CKSRYF473Z50
	C2710		CSZS3R3K20
	C2704		CSZSC100K25

RESISTORS

	R7710–R7713 (22 kΩ ×4)	ACN7073
	R2475, R2481–R2485, R2487 (100 Ω ×4)	DCN1092
	R2498, R2499, R7714–R7720 (100 Ω ×4)	DCN1092
	R2763, R2830	RD1/2LMF271J
	R2764, R2837	RS1/16S1001F
	R7730	RS1/16S1002F
	R7029, R7424, R7701	RS1/16S1101F
	R7729	RS1/16S1502F
	R7030, R7046, R7702	RS1/16S1801F
	R7047	RS1/16S2701F
	R7423	RS1/16S3301F
	R2771, R2834	RS1/16S6201F
	VR2701, VR2801 (470 Ω)	ACP1088
	Other Resistors	RS1/16S □□□ J

OTHERS

2704, 2705	PULG CORD	ADE1171
J2703	10P HOUSING WIRE	ADX2496
J2451	3P HOUSING WIRE	ADX2499
J2701	3P HOUSING WIRE	ADX2567
CN2454	PLUG 50–P	AKM1126
CN7501	PLUG 44–P	AKM1155
K7503–K7506, K7509–K7514, K7706		AKX9002
K7709–K7712		AKX9002
X2451	CERAMIC RESONATOR	ASS1015
X7102, X7301	CERAMIC RESONATOR	ASS1019
X7101, X7300	(3.58 MHz)	ASS1138
X7001 (20 MHz)		ASS1143
CN2457	L–PLUG (8P)	KM250MA8L
CN2451	L–PLUG (8P)	KM250MA8LR
CN2458	PH CONNECTER (SMT)	S12B–PH–SM3
CN2455	CONNECTOR	S3B–PH–SM3
CN2701	CONNECTOR	S5B–PH–SM3
CN2453	CONNECTOR	S8B–PH–SM3

RF SWITCH

RF SWITCH has no service part.

Mark	No.	Description	Part No.

TV FRONT END SYSTEM UNIT

TV FRONT END SYSTEM UNIT has no service part.

H SUB VIDEO SERVICE ASSY

SEMICONDUCTORS

IC4001	AD8057ART
IC3001	AN5344FBP
IC4301	AN5395FBP
IC4304	CXA1315M
IC3201	CXA3106Q
IC3203	CXD2303AQ
IC3601, IC3604	EM636327Q–8
IC4802	HG62G010R29FB
IC4052	M52036SP
IC3602	MB40958PFQ
IC3003	NJM319M
IC2204	PD0264AM
IC3801	PD3420A8
IC2201	PD5563
IC3401	PE5066A
IC3501	PE5067A
IC2203	PST9146N
IC3206	TA78M05F
IC4806	TA8667F
IC2205	TC74HC157AF
IC4803	TC74HC4040AF
IC4051	TC74HC4053AF
IC4053, IC4055	TC74HC4066AF
IC4054, IC4056	TC74HC4538AF
IC4804	TC74HCT74AF
IC3204	TC74LCX541FT
IC3502, IC3503	TC7SET04FU
IC3209, IC3802	TC7SET08FU
IC3002	TK15420M
Q2202, Q2204, Q2205, Q2207, Q2208	2SA1162
Q3002, Q3003, Q3016, Q3018	2SA1162
Q3604–Q3606, Q4003, Q4005	2SA1162
Q4057, Q4058, Q4062–Q4064	2SA1162
Q4071, Q4072, Q4078, Q4081, Q4087	2SA1162
Q4089–Q4091, Q4096, Q4301, Q4302	2SA1162
Q4306, Q4307, Q4319, Q4328, Q4330	2SA1162
Q4001, Q4007	2SA1669
Q2201, Q2203, Q2206, Q2209, Q2210	2SC2712
Q3001, Q3008–Q3013, Q3015, Q3017	2SC2712
Q3201–Q3213, Q3601–Q3603, Q4002	2SC2712
Q4004, Q4006, Q4008, Q4051–Q4056	2SC2712
Q4059–Q4061, Q4065–Q4070	2SC2712
Q4075–Q4077, Q4079, Q4080	2SC2712
Q4083–Q4086, Q4088, Q4092–Q4095	2SC2712
Q4097, Q4098, Q4102, Q4303–Q4305	2SC2712
Q4308–Q4311, Q4321–Q4323	2SC2712
Q4325–Q4327, Q4331, Q4332	2SC2712
Q4807–Q4817	2SC2712
Q4082	2SK209
D3001	1SS184

Mark	No.	Description	Part No.
	D2203, D2206, D2207, D2210–D2212		1SS226
	D2215–D2234, D4056, D4057		1SS226
	D4059, D4060		1SS226
	D3201, D4052–D4054, D4058		1SS352
	D4802–D4805		1SS352
	D2204, D2205		RD6.8MB

COILS AND FILTERS

L2203, L4802		ATC1037
F2201, F3202, F3203, F3401, F3801		ATF1189
F4302, F4801–F4804		ATF1189
DL3001		ATN1040
DL4303		ATN1055
L3601, L3603, L3605		LCTA1R2J3225
L4310, L4312		LCTA1R5J3225
L3602, L3604, L3606		LCTA2R2J3225
L3202, L3205, L3207		LCTA4R7J3225
L2201, L3001, L3201, L3203, L3204		LCTA5R6J3225
L3206, L4302, L4311		LCTA5R6J3225
L4301		LCTA820J3225

CAPACITORS

C3205, C3207 (0.47 µF/16V)		ACE1130
C3019, C3265, C3654		CCSQCH100D50
C3204, C3264, C3645–C3647, C4082		CCSQCH101J50
C4365–C4367		CCSQCH101J50
C2211		CCSQCH120J50
C2207, C2208		CCSQCH150J50
C3655, C3656		CCSQCH180J50
C2205, C2241, C4823, C4828		CCSQCH221J50
C4369		CCSQCH270J50
C3243, C3247, C3266, C3269		CCSQCH330J50
C3245, C3267, C3270		CCSQCH331J50
C2210		CCSQCH390J50
C3246, C3268, C3271, C4310		CCSQCH470J50
C3620, C3648, C3649, C4302, C4347		CCSQCH560J50
C2206, C4062, C4064		CCSQCH561J50
C3202		CCSQSL222J50
C3416, C3520, C3616, C3618, C3619		CCSRCH220J50
C3817		CCSRCH220J50
C3814, C3815		CCSRCH7R0D50
C3026, C3031, C3219, C3239, C4067		CEV100M16
C4101, C4315		CEV100M16
C4348–C4350		CEV101M16
C2222, C2226, C2237, C2239, C3020		CEV101M6R3
C3030, C3401, C3501, C3506		CEV101M6R3
C3801, C3802, C4804, C4817		CEV101M6R3
C2234, C3014, C3640, C4099, C4377		CEV1R0M50
C4052, C4053		CEV220M16
C3009, C3017		CEV2R2M50
C3005, C3006, C3023, C3028		CEV470M10
C4004, C4005, C4051, C4054		CEV470M10
C4056, C4057, C4059, C4068, C4078		CEV470M10
C4080, C4345		CEV470M10
C4002, C4003, C4065, C4092, C4093		CEV470M16
C4802, C4832		CEV470M16
C3208, C3209, C3220, C3224, C3233		CEV470M6R3
C3241, C3244, C3250–C3252, C3254		CEV470M6R3
C3256, C3601, C3602, C3617		CEV470M6R3
C3623, C3624, C3643, C3644, C4075		CEV470M6R3
C4089		CEV470M6R3
C4081, C4094–C4097		CEV4R7M35
C3024		CEVNP2R2M35
C3007, C3008		CEVNPR33M50
C4063		CEVR10M50
C3001, C3002		CEVR33M50
C2238, C3015		CEVR47M50
C3012, C4303, C4311, C4319, C4359		CFHSQ103J16
C4104		CFHSQ331J50
C4103		CFHSQ332J16
C4087, C4102		CFHSQ821J50
C4055, C4355–C4358, C4829		CKSQYB224K16
C4060, C4086		CKSQYB472K50
C4098		CKSQYB561K50
C4830		CKSQYB822K50
C4084		CKSQYF104Z50
C3010, C3011, C4831, C4835		CKSQYF105Z16
C2224, C2228, C3022, C4323, C4324		CKSRYB102K50
C4822		CKSRYB102K50
C2223, C3013, C3016, C3210–C3215		CKSRYF103Z50
C3641, C4304–C4309, C4312, C4314		CKSRYF103Z50
C4316, C4320, C4322, C4343, C4370		CKSRYF103Z50
C4827		CKSRYF103Z50
C2209, C2220, C2221, C2225, C2227		CKSRYF104Z16
C2236, C3003, C3004, C3018, C3025		CKSRYF104Z16
C3027, C3029, C3201, C3216–C3218		CKSRYF104Z16
C3221–C3223, C3225–C3232, C3234		CKSRYF104Z16
C3238, C3240, C3242, C3248, C3249		CKSRYF104Z16
C3255, C3257, C3263, C3276		CKSRYF104Z16
C3403–C3415, C3502–C3505		CKSRYF104Z16
C3507–C3519, C3603–C3615		CKSRYF104Z16
C3621, C3622, C3625–C3639, C3642		CKSRYF104Z16
C3803–C3805, C3816, C3818, C4001		CKSRYF104Z16
C4058, C4061, C4066, C4069, C4074		CKSRYF104Z16
C4077, C4079, C4083, C4088, C4091		CKSRYF104Z16
C4317, C4321, C4340, C4344, C4346		CKSRYF104Z16
C4801, C4803, C4810, C4816		CKSRYF104Z16
C4818, C4819, C4821, C4833, C4834		CKSRYF104Z16
C4836, C4837		CKSRYF104Z16
C3206, C3261		CKSRYF223Z50

RESISTORS

R3521, R3522, R3801, R3808		DCN1090
R3819–R3821, R3826, R3831		DCN1090
R2269, R2275		DCN1092
R3809, R3810		DCN1100
R3291, R4022, R4193		RS1/16S1001F
R4008, R4012		RS1/16S1202F
R3207, R3290		RS1/16S1601F
R4004, R4010, R4219		RS1/16S2001F
R4002, R4021		RS1/16S2002F
R4009		RS1/16S3001F
R3206		RS1/16S3301F
R4871		RS1/16S3302F

Mark	No.	Description	Part No.
	R4175, R4870		RS1/16S6802F
	R3261		RS3LMF330J
	VR3003 (1 kΩ)		ACP1089
	VR4052 (2.2 kΩ)		ACP1090
	VR3004 (4.7 kΩ)		ACP1091
	Other Resistors		RS1/16S □□□ J

OTHERS

	CN3002	PLUG 50–P	AKM1126
	CN3001	PLUG 44–P	AKM1155
	K3001–K3003, K3201, K3202		AKX9002
	K3501–K3514, K3801–K3826		AKX9002
	K4301–K4304		AKX9002
	X2202	CERAMIC RESONATOR	ASS1015
	X3801 (20.0 MHz)		ASS1147
	CN2202	PLUG 6–P	KM250MA6L

B AV I/O ASSY (AWV1802)

SEMICONDUCTORS

	IC6001	CXA2069Q
	IC6201, IC6202	MC14066BF
	Q6004, Q6012, Q6014, Q6015, Q6019	2SA1162
	Q6022, Q6024, Q6025, Q6034	2SA1162
	Q6036–Q6038, Q6201, Q6206, Q6212	2SA1162
	Q6214, Q6216–Q6218	2SA1162
	Q6001–Q6003, Q6005–Q6011, Q6013	2SC2712
	Q6016–Q6018, Q6020, Q6021, Q6023	2SC2712
	Q6027–Q6033, Q6035, Q6039–Q6048	2SC2712
	Q6202–Q6205, Q6207–Q6211, Q6213	2SC2712
	Q6215	2SC2712
	D6040, D6041, D6207	1SS184
	D6001–D6022, D6024, D6027–D6029	1SS226
	D6032, D6034, D6036, D6208–D6212	1SS226
	D6023, D6030, D6031, D6037–D6039	1SS352
	D6201–D6203, D6213	1SS352
	D6204	RD6.8MB
	D6214	UDZS6.2B

CAPACITORS

	C6006, C6049, C6052, C6068, C6081	CEV100M16
	C6086	CEV100M16
	C6047	CEV101M6R3
	C6073, C6074	CEV102M6R3
	C6013, C6014, C6026, C6027	CEV1R0M50
	C6031, C6032, C6036, C6037	CEV1R0M50
	C6041–C6043, C6065, C6066, C6078	CEV1R0M50
	C6209	CEV1R0M50
	C6015–C6017, C6024, C6028, C6029	CEV220M16
	C6033, C6034, C6051, C6064, C6070	CEV220M16
	C6072, C6083, C6088	CEV220M16
	C6001, C6004, C6018, C6020, C6045	CEV470M16
	C6059–C6061, C6085, C6208, C6210	CEV470M16
	C6214, C6216	CEV470M16
	C6204	CEV470M6R3
	C6007, C6050, C6053, C6069, C6082	CEV4R7M35
	C6087	CEV4R7M35
	C6046	CEVNP470M6R3
	C6067, C6077	CEVR47M50
	C6002, C6003, C6009–C6012	CKSQYF105Z16
	C6090, C6091, C6212, C6213	CKSQYF105Z16
	C6202	CKSQYF472Z50
	C6075, C6076	CKSRYB332K50
	C6005, C6008, C6021–C6023	CKSRYF103Z50
	C6038–C6040, C6044, C6048	CKSRYF103Z50
	C6054–C6058, C6062, C6063, C6071	CKSRYF103Z50
	C6084, C6089, C6201, C6203	CKSRYF103Z50
	C6205–C6207, C6215	CKSRYF103Z50
	C6019, C6025, C6030, C6035	CKSRYF104Z16

RESISTORS

	R6183	RD1/2LMF1R0J
	R6182	RD1/4LMF3R9J
	R6279, R6296	RS1/16S0R0J
	R6089, R6091, R6106, R6123, R6126	RS1/16S101J
	R6136, R6144, R6147, R6207, R6213	RS1/16S101J
	R6252–R6267, R6269, R6271–R6273	RS1/16S101J
	R6040, R6118, R6130, R6143, R6154	RS1/16S102J
	R6163, R6174, R6201, R6205, R6277	RS1/16S102J
	R6005, R6044, R6105, R6116, R6120	RS1/16S103J
	R6152, R6156, R6161, R6165, R6172	RS1/16S103J
	R6176, R6202, R6209, R6231, R6268	RS1/16S103J
	R6270	RS1/16S103J
	R6004, R6006, R6036, R6043, R6045	RS1/16S104J
	R6114, R6127, R6150, R6159, R6170	RS1/16S104J
	R6221–R6223	RS1/16S104J
	R6054, R6125	RS1/16S152J
	R6087, R6088, R6104, R6276	RS1/16S153J
	R6137, R6139, R6249	RS1/16S183J
	R6011, R6013, R6020–R6026	RS1/16S221J
	R6029–R6033, R6037, R6052, R6053	RS1/16S221J
	R6067, R6074, R6085, R6086, R6094	RS1/16S221J
	R6096, R6115, R6124, R6138	RS1/16S221J
	R6140–R6142, R6145, R6151, R6160	RS1/16S221J
	R6171, R6232, R6241, R6242	RS1/16S221J
	R6009, R6010, R6041, R6050, R6051	RS1/16S222J
	R6075–R6080, R6112, R6113, R6131	RS1/16S222J
	R6146, R6234, R6236	RS1/16S222J
	R6092, R6093, R6098–R6101	RS1/16S223J
	R6121, R6122, R6132–R6135	RS1/16S223J
	R6157, R6158, R6166, R6167	RS1/16S223J
	R6177, R6178, R6204, R6206	RS1/16S223J
	R6210–R6212, R6224–R6227	RS1/16S223J
	R6243–R6246, R6248, R6250, R6251	RS1/16S223J
	R6203	RS1/16S224J
	R6059, R6068, R6095, R6097, R6208	RS1/16S332J
	R6237, R6240	RS1/16S332J
	R6119, R6155, R6164, R6175	RS1/16S472J
	R6184, R6185, R6274	RS1/16S472J
	R6228, R6230, R6247	RS1/16S473J
	R6001, R6002, R6062, R6063	RS1/16S474J

Mark	No.	Description	Part No.
	R6069, R6070, R6179, R6180		RS1/16S474J
	R6034, R6035, R6102, R6103		RS1/16S560J
	R6039, R6117, R6129, R6153, R6162		RS1/16S562J
	R6173		RS1/16S562J
	R6229		RS1/16S563J
	R6012, R6014–R6017, R6019		RS1/16S622J
	R6027, R6028, R6081–R6084		RS1/16S622J
	R6110, R6111		RS1/16S622J
	R6038, R6128		RS1/16S682J
	R6055, R6057, R6189, R6191		RS1/16S683J
	R6018, R6060, R6061, R6064–R6066		RS1/16S750J
	R6071–R6073, R6181, R6186–R6188		RS1/16S750J
	R6215–R6220		RS1/16S750J
	R6048, R6049, R6148, R6149, R6194		RS1/16S821J
	R6233, R6235		RS1/16S821J
	R6056, R6058, R6190, R6192		RS1/16S823J
	R6193		RS1/16S911J
	Other Resistors		RS1/10S □□□J

OTHERS

	CN6001	PINJACK (6P) WITH SIN	AKB1271
	CN6002	PINJACK (6P) WITH SIN	AKB1272
	CN6003	PINJACK (6P)	AKB1273
	CN6203	PINJACK (6P)	AKB1274
	CN6205	PLUG 50–P	AKM1126
	JA6201, JA6206	JACK	AKN1071
	CN6006	L–PLUG (10P)	KM250MA10L
	CN6005	L–PLUG (11P)	KM250MA11L
	CN6007	PLUG 3–P	KM250MA3L
	CN6202	PLUG 3–P	KM250MA3LB
	CN6204	PLUG 3–P	KM250MA3LR